

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS X WATER SANDS LOCATION INSPECTED X SUB REPORT/abd

990614 Conf Exp!

DATE FILED MARCH 11, 1997

LAND FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO

INDIAN

#

DRILLING APPROVED. MARCH 17, 1997

14-20-H62-3518

SPUDDED IN 4-7-98

COMPLETED 5-14-98 POW PUT TO PRODUCING: 5-21-98

INITIAL PRODUCTION Oil - 0 Bar - 0 MCF Water - 22.531

GRAVITY API

GOR

PRODUCING ZONES 4064-5004'

TOTAL DEPTH 6122'

WELL ELEVATION 6552' KB (GRAN)

DATE ABANDONED.

FIELD ANTELOPE CREEK

UNIT

COUNTY DUCHESNE

WELL NO UTE TRIBAL 29-03

API NO. 43-013-31842

LOCATION 624 FNL FT FROM (N) (S) LINE. 1987 FNL

FT FROM (E) (W) LINE NE NW

1/4 - 1/4 SEC 29

TWP

RGE

SEC

OPERATOR

TWP

RGE

SEC

OPERATOR

5S

3W

29

PETROGLYPH OPERATING

GEOLOGIC TOPS:

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humburg
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
B Marker 4050	Dakota	Park City	McCracken
A Marker 4538	Burro Canyon	Rico (Goodridge)	Aneth
Dg 49/49 Cr 4671	Cedar Mountain	Supai	Simonsen Dolomite
B Limestone 5058	Buckhorn	Wolfcamp	Sevy Dolomite
Castle Pt 5604	JURASSIC	CARBONIFEROUS	North Point
Wasatch 13050 / Camp 6029	Morrison	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafael Gr	Weber	ORDOVICIAN
Flagstaff	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE-CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	TRIASSIC		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

PETROGLYPH OPERATING COMPANY, INC.

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface

624' FNL & 1987' FWL NE/NW

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20.1 MILES SOUTHWEST OF MYTON, UTAH

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 624'
(Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

5770'

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6542' GRADED GROUND

22. APPROX. DATE WORK WILL START*

MARCH, 1997

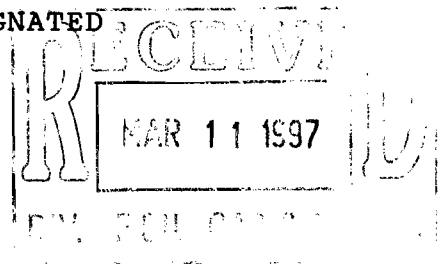
23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0#	250'	135 sx class "G" + 2% CaCl ₂ + 1/4 #/sx celloflake. 50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG +) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).
7 7/8	5 1/2	15.5#	5770'	

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED
OPERATOR OF THE SUBJECT WELL UNDER BOND # BO 4556.

pc: Utah Division of Oil, Gas, and Mining
Bureau of Indian Affairs, Fort Duchesne, Utah
Ute Tribe, Fort Duchesne, Utah



CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE AGENT FOR PETROGLYPH

DATE

3-7-97

(This space for Federal or State office use)

PERMIT NO.

43-013-31842

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL IF ANY:

APPROVED BY

TITLE

DATE

3/17/97

*See Instructions On Reverse Side

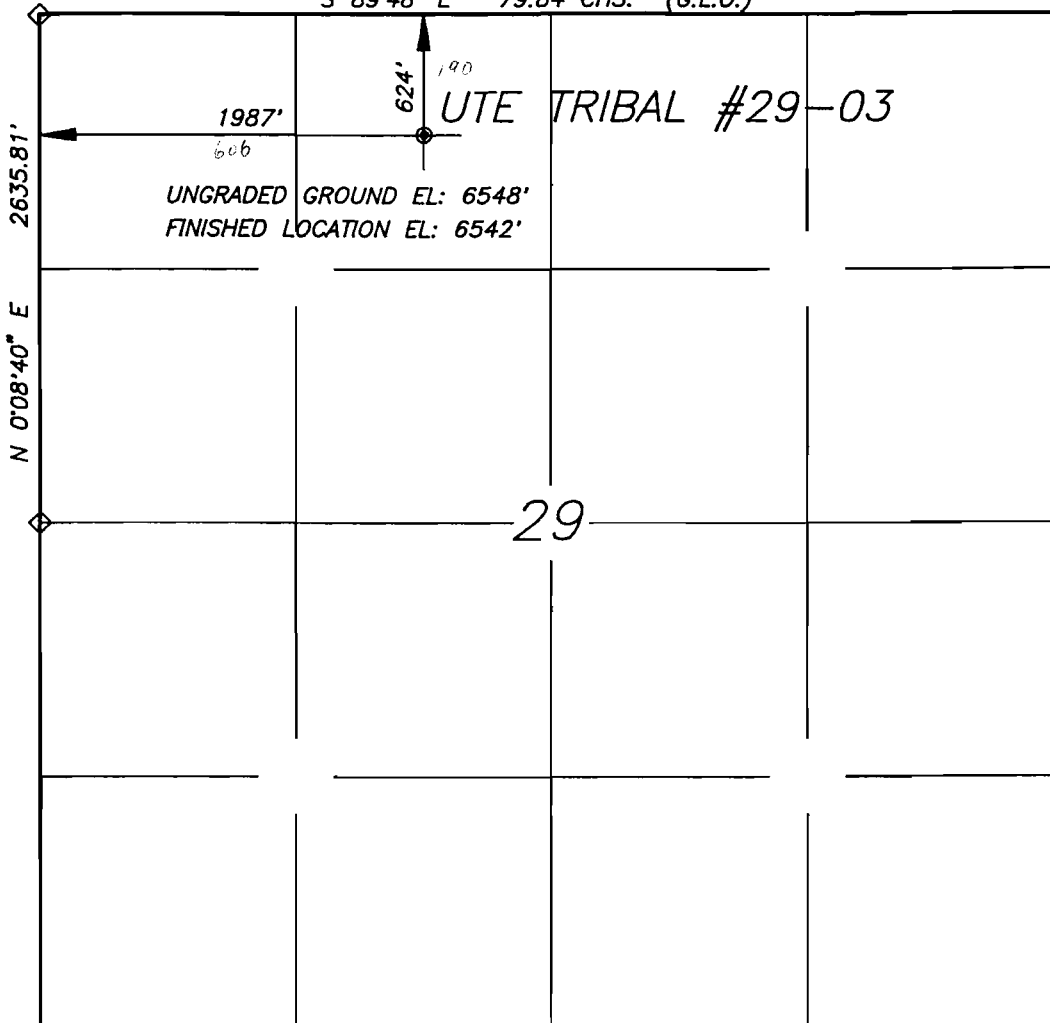
PETROGLYPH OPERATING CO., INC.

WELL LOCATION PLAT

UTE TRIBAL #29-03

LOCATED IN THE NE1/4 OF THE NW1/4
SECTION 29, T5S, R3W, U.S.B.&M.

S 89°48' E 79.84 CHS. (G.L.O.)



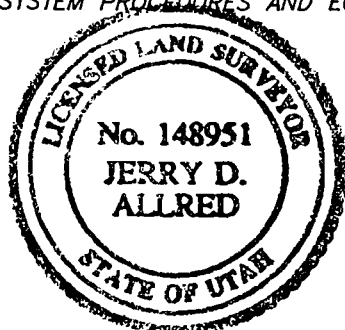
SCALE: 1" = 1000'

LEGEND AND NOTES

- ◇ ORIGINAL CORNER MONUMENTS FOUND AND USED BY THIS SURVEY.

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS, AS WAS THE U.S.G.S. QUADRANGLE MAP.

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT.

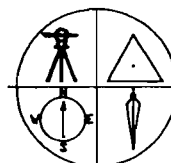


SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY PERFORMED BY ME, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR ESTABLISHED.

Jerry D. Allred

JERRY D. ALLRED, REGISTERED LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

121 NORTH CENTER STREET
P.O. BOX 975
DUCHESNE, UTAH 84021
(801)-738-5352

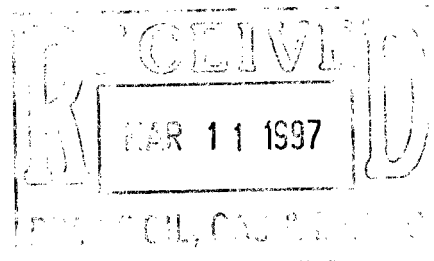
23 DEC 1996

96-125-004

Petroglyph Operating Co., Inc.
P.O. Box 1839
Hutchinson, KS 67504-1839

March 5, 1997

Utah Division of Oil, Gas, & Mining
Attn: Mr. Frank Matthews, Petroleum Engineer
1594 West North Temple
Box 145801
Salt Lake City, UT 84114-5801



RE: APPLICATION FOR PERMIT TO DRILL
UTE TRIBAL #29-03
NE/NW SEC. 29, T5S, R3W
DUCHESNE COUNTY, UTAH
LEASE NO. BIA 14-20-H62-3518
UTE TRIBAL LANDS

Dear Mr. Matthews:

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter
P.O. Box 1910
Vernal, UT 84078
Phone # (801) 789-4120
Fax # (801) 789-1420

Sincerely,

Ed Trotter
Agent

Petroglyph Operating Co., Inc.

Attachments

/EHT/dmt

EIGHT POINT PLAN

UTE TRIBAL #29-03
NE/NW SEC. 29, T5S R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2592	3596
"X" Marker	4161	2027
Douglas Creek	4302	1886
"B" Limestone	4680	1508
B/Castle Peak Limestone	5230	958
Basal Carbonate Limestone	5660	528
Total Depth	5770	418

Anticipated BHP 2000 psi

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4320	1886
Oil/Gas	B/Castle Peak	5230	958
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT : BOP Schematic Diagram attached.

4. CASING PROGRAM :

<u>MINIMUM SAFETY FACTOR</u>								
<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
12 1/4	0' - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0' - 5770'	5770'	5 1/2	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #29-03
NE/NW SEC. 29, T5S R3W
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL

0' - 250'
250' - 4000'
4000' - TD
TD

MUD TYPE

Air
Air/Mist & Aerated Water
Air/3% KCL water or KCL substitute
Gel/polyacrylamide polymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

6. VARIANCE REQUESTS:

- A. Petroglyph Operating Co., Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Co., Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

7. EVALUATION PROGRAM:

Logs: Mud Logging	T.D. to base of surface csg.
Compensated Density-Compensated Neutron Log	T.D. to base of surface csg.
Dual Laterolog - Micro-SFL	T.D. to base of surface csg.
Numar (Magnetic Resonance Imaging Log)	@ Geologists discretion

Cores: None Programmed
DST: None Programmed

Completion: To be submitted at a later date.

8. ABNORMAL CONDITIONS:

None anticipated.

EIGHT POINT PLAN

UTE TRIBAL #29-03
NE/NW SEC. 29, T5S R3W
DUCHESNE COUNTY, UTAH

9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

10. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

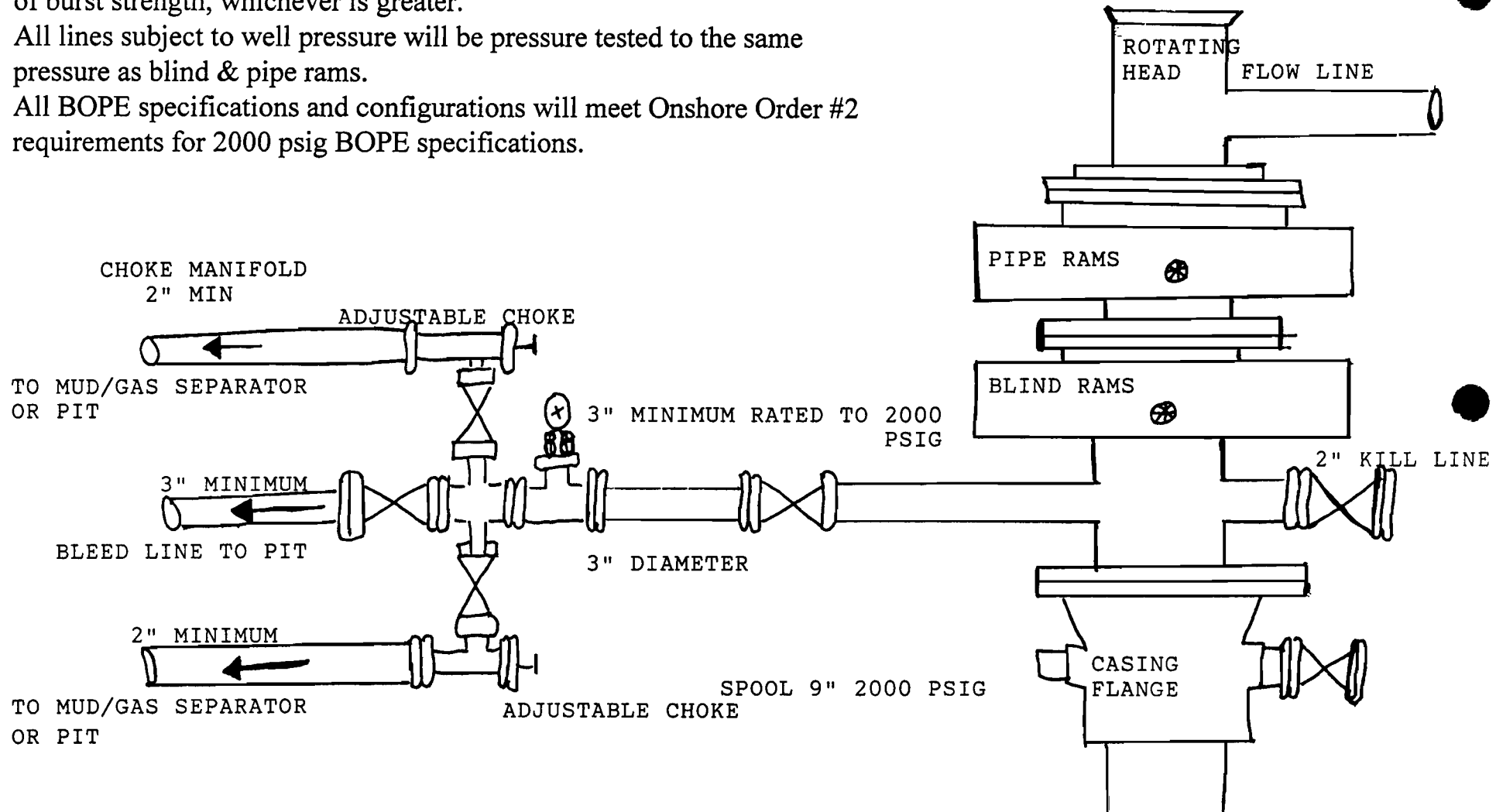
(Attachment: BOP Schematic Diagram)

2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED.
CASING FLANGE IS 9" 2000 PSIG RATED.
BOPE 9" 2000 PSIG

TESTING PROCEDURE:

1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind rams will be tested to rated working pressure, 2000 psig
3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.



CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Co., Inc.
Well Name & Number: Ute Tribal #29-03
Lease Number: BIA 14-20-H62-3518
Location: 624' FNL & 1987' FWL NE/NW, Sec. 29, T5S R3W
U.S.B.&M., Duchesne County, Utah
Surface Ownership: Ute Indian Tribe

NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice - at least twenty-four (24) hours prior to spudding the well.

Casing String and Cementing - twenty-four (24) hours prior to running casing and cementing all casing strings.

BOP and related Equipment Tests - twenty-four (24) hours prior to running casing and tests.

First Production Notice - within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice To Drill and Surface Use Program.

THIRTEEN POINT SURFACE USE PROGRAM

1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing road.
- B. The proposed well site is located approximately 20.1 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

2. PLANNED ACCESS ROAD

- A. The access road will be approximately 10 feet in length.
See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges or major cuts & fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the

roadbed as necessary to provide a well-constructed safe road.

Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of- Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Water wells - 1 *
- B. Abandoned wells - None
- C. Temporarily abandoned wells - None.
- D. Disposal wells - None.
- E. Drilling wells - None.
- F. Producing wells - 24*
- G. Shut in wells - None
- H. Injection wells - None

(*See attached TOPO map "C" for location)

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD

- 1. Tank batteries - None
- 2. Production facilities-To be submitted later
- 3. Oil gathering lines - None

4. Gas gathering lines-None
5. Injection lines - None
6. Disposal lines - None
7. Surface pits - None

B. OFF WELL PAD

1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
2. A 4 1/2" OD steel above ground production pipeline will be laid approximately 1433' from proposed location to a point in the SE/NW of Section 29, T5S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing facility at the Ute Tribal #29-06 tank battery. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map D showing pipeline route.
3. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Ute Tribal #29-06 location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A.

(Occupational Safety and Health Act) will be excluded.

The required paint color is Desert Brown.

5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- C. No water well will be drilled on lease.

6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL

A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.

5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on drilling rig to avoid leakage of oil to pit.

B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to reserve pit will be avoided by flaring them off in flare pit at time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

On BIA administered land:

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

A 12 mill liner shall be installed in the reserve pit.

___ To protect the environment:

If the reserve pit is lined the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

___ To protect the environment (without a chemical analysis)
reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

___ Storage tanks will be used if drill sites are located on tribal

irrigable land, flood plains, or on lands under crop production.

After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

8. ANCILLARY FACILITIES

- A. No airstrips or camps are planned for this well.

9. WELL SITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills & cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation parking areas, and access road.

The reserve pit will be located on the South side of the location.

The flare pit will be located downwind of the prevailing wind direction on the South side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the North side.

Access to the well pad will be from the West.

N/A Diversion ditch(es) shall be constructed on the _____ side of the location (above/below) the cut slope, draining to the _____

N/A Soil compacted earthen berm(s) shall be placed on the _____ side(s) of the location between the _____

N/A The drainage(s) shall be diverted around the sides of the well pad location.

N/A The reserve pit and/or pad locations shall be constructed long and narrow for topographic reasons _____

N/A Corner No. will be rounded off to minimize the fill.

FENCING REQUIREMENTS

All pits will be fenced according to the following minimum standards:

- A. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16'.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly travelled. If the well is a producer, the cattleguards (shall/ shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on federal land, or any fence between federal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to

satisfy himself/herself that the fence is adequately braced and tied off.

10. PLANS FOR RESTORATION OF SURFACE

A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and BIA will attach the appropriate surface rehabilitation conditions of approval.

ON BIA Administered lands:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, (c) ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

11. SURFACE OWNERSHIP

Access road: Ute Indian Tribe

Location: Ute Indian Tribe

12. OTHER INFORMATION

- A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:
- whether the materials appear eligible for the National Register of historic Places;

the mitigation measures the operator will likely have to undertake before the site can be used.

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA,

or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator,

the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

Additional Surface Stipulations

N/A No construction or drilling activities shall be conducted between

_____ and _____ because of _____

N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.

N/A No construction or exploration activities are permitted within 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.

N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).

N/A No cottonwood trees will be removed or damaged.

N/A Pond will be constructed according to BLM specifications approximately _____ ft. _____ of the location, as flagged on onsite.

LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

PERMITTING

Ed Trotter

1620 West 750 North

Vernal UT 84078

Telephone # (801)789-4120

Fax # (801) 789-1420

OPERATIONS

Vince Guinn

P.O. Box 607

Roosevelt, UT 84066

(801) 722-2531

Fax # (801) 722-9145

All lease/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA Office shall be notified upon site completion prior to moving on the drilling rig.

Certification:

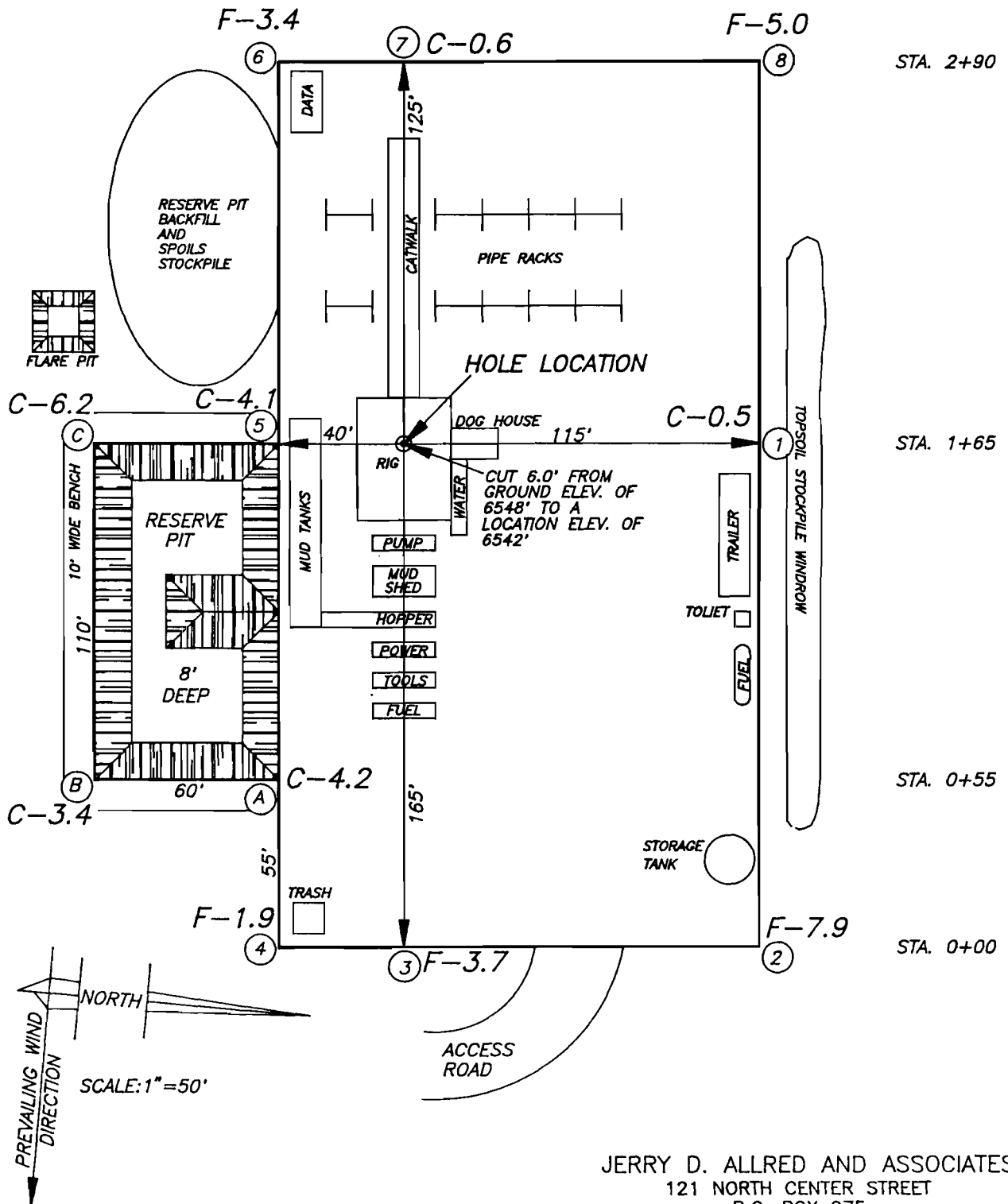
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

3-7-97

Date



PETROGLYPH OPERATING CO., INC.
LOCATION LAYOUT PLAT
UTE TRIBAL #29-03
 SECTION 29, T5S, R3W, U.S.B.&M.



23 DEC 1996

96-125-004

JERRY D. ALLRED AND ASSOCIATES
 121 NORTH CENTER STREET
 P.O. BOX 975
 DUCHESNE, UTAH 84021
 (801) 738-5352

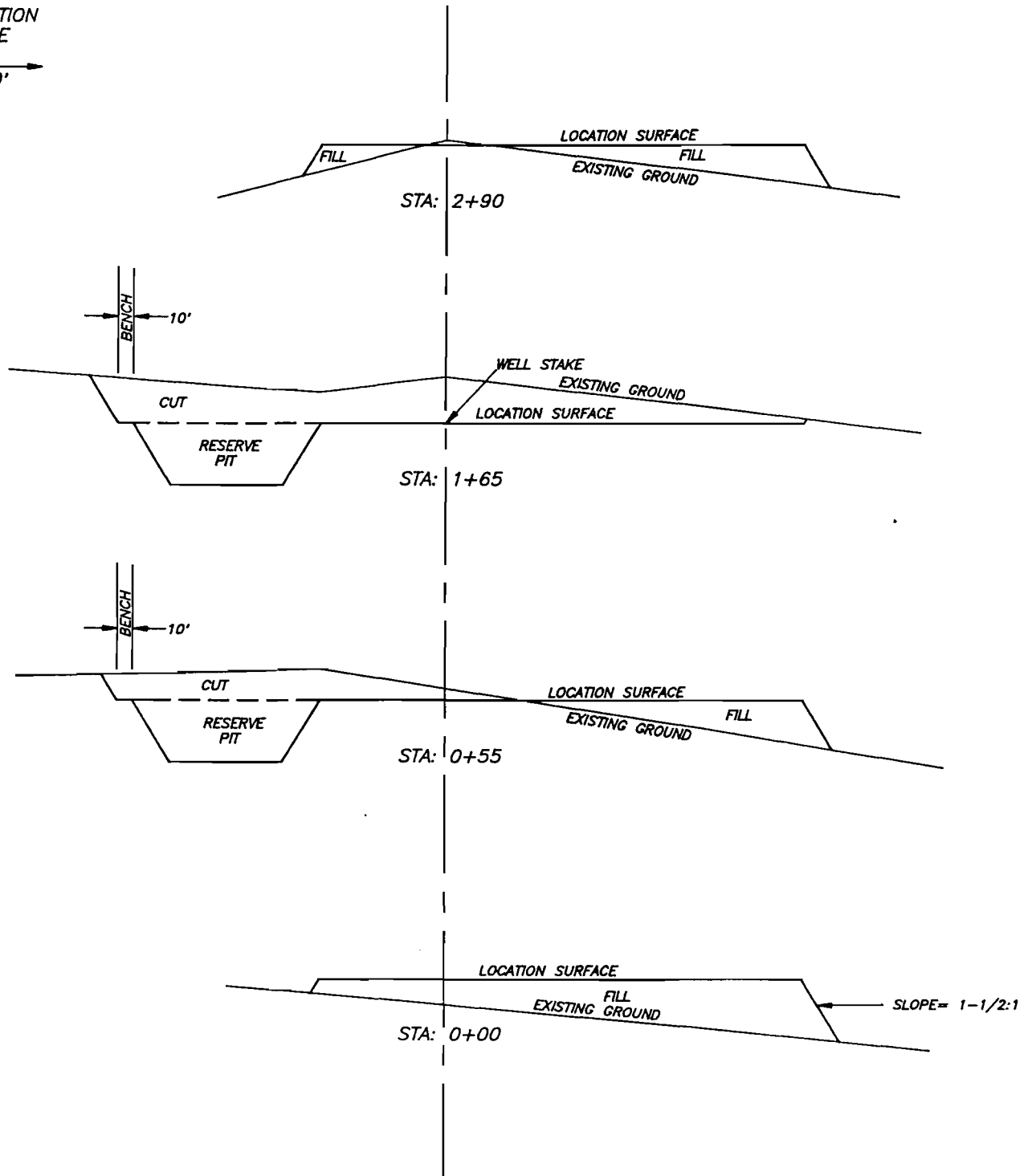
PETROGLYPH OPERATING CO., INC.

LOCATION LAYOUT PLAT

UTE TRIBAL #29-03

SECTION 29, T5S, R3W, U.S.B.&M.

1" = 20'
X-SECTION
SCALE
1" = 50'



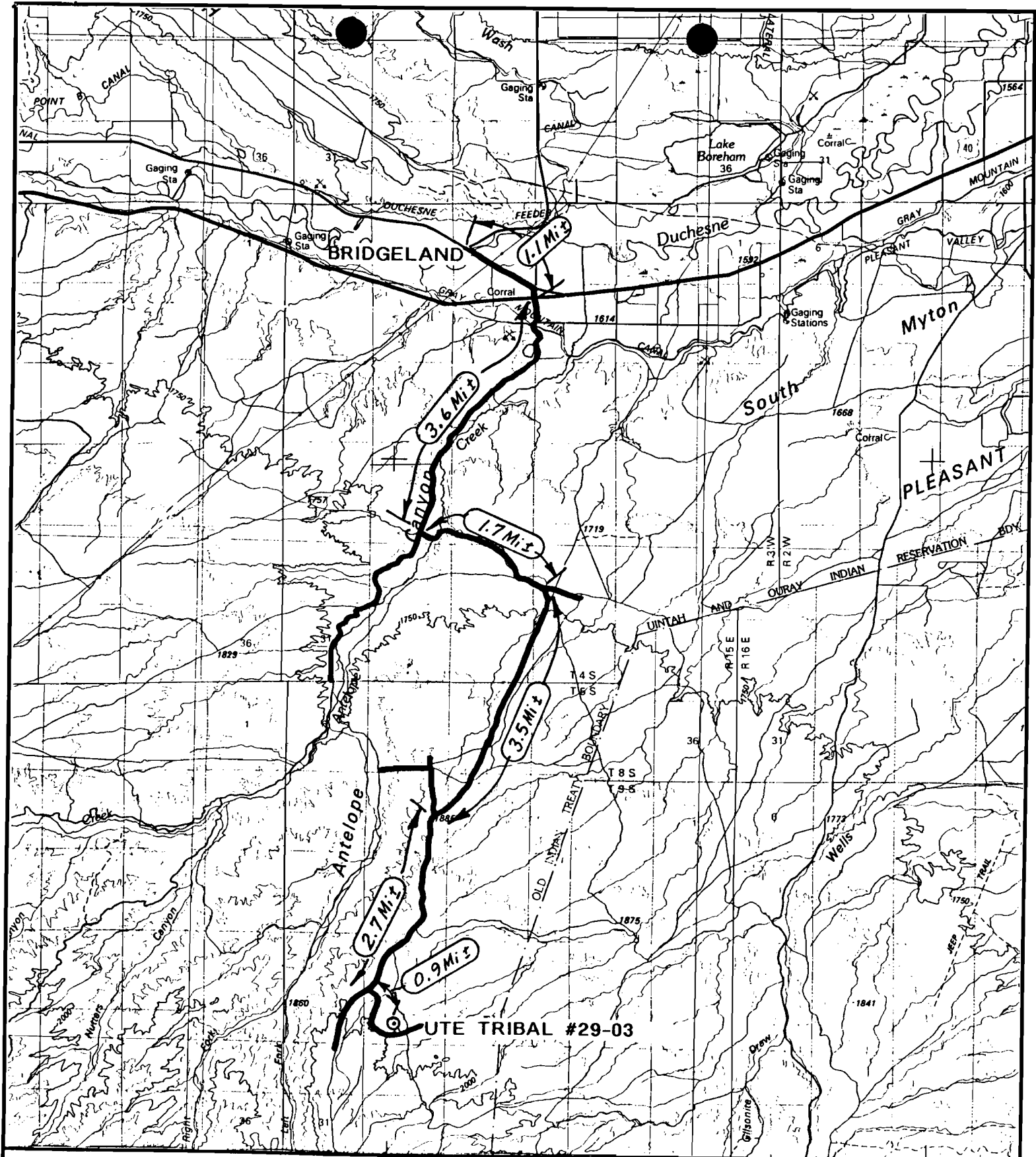
APPROXIMATE QUANTITIES

CUT: 5730 CU. YDS. (INCLUDES PIT)
FILL: 2710 CU. YDS.

JERRY D. ALLRED AND ASSOCIATES
121 NORTH CENTER STREET
P.O. BOX 975
DUCHESNE, UTAH 84021
(801) 738-5352

24 DEC 1996

96-125-004



TOPOGRAPHIC MAP
"A"



PETROGLYPH OPERATING CO., INC.

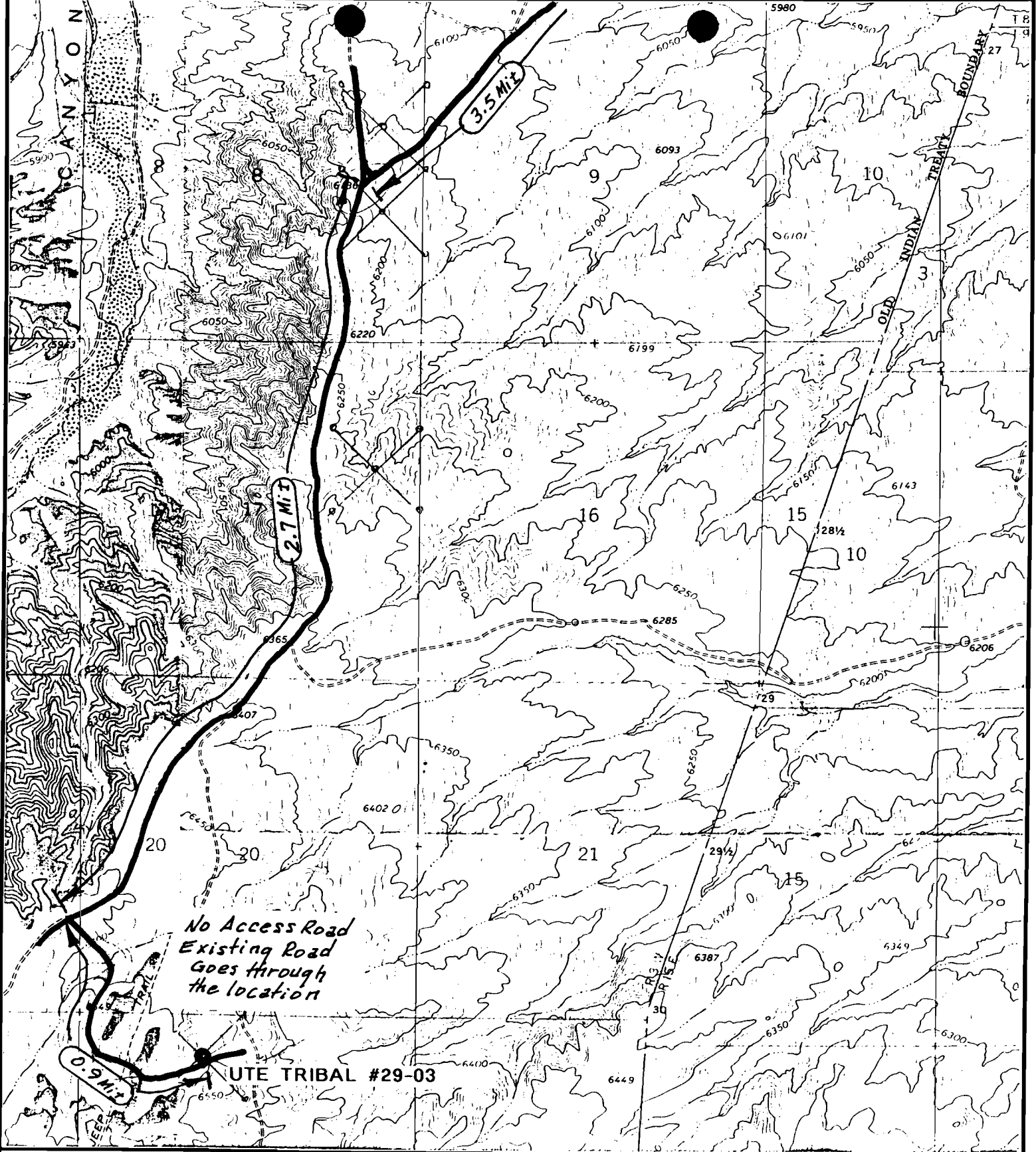
UTE TRIBAL #29-03

SECTION 29, T5S, R3W, U.S.B.&M.

DATE: 27 Dec '96

PROJ. NO. 96-125-004

JERRY D. ALLRED & ASSOCIATES
121 NO. CENTER ST. P.O. BOX 975
DUCHESNE, UTAH 84021 (801) 738-5352



TOPOGRAPHIC MAP
"B"



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #29-03

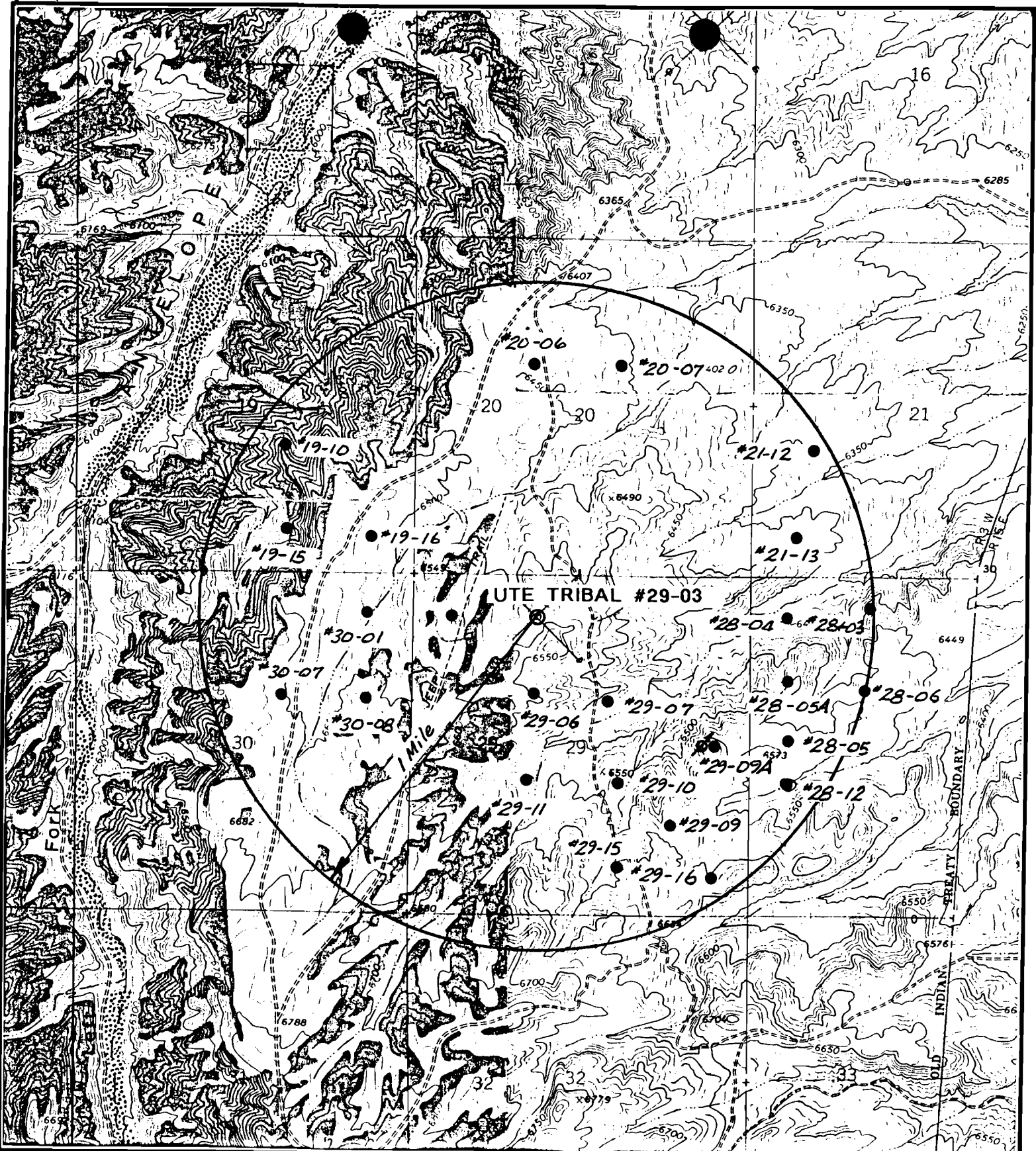
SECTION 29, T5S, R3W, U.S.B.&M.

JERRY D. ALLRED & ASSOCIATES
121 NO. CENTER ST. P.O. BOX 975
Duchesne, Utah 84021 (801) 738-5352

SCALE: 1" = 2000'

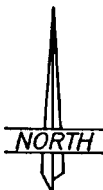
DATE: 27 Dec '96

PROJ. NO. 96-125-004



LEGEND

- WATER WELL
- ABANDONED WELL
- TEMP. ABANDONED WELL
- DISPOSAL WELL
- DRILLING WELL
- PRODUCING WELL
- SHUT-IN WELL



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #29-03

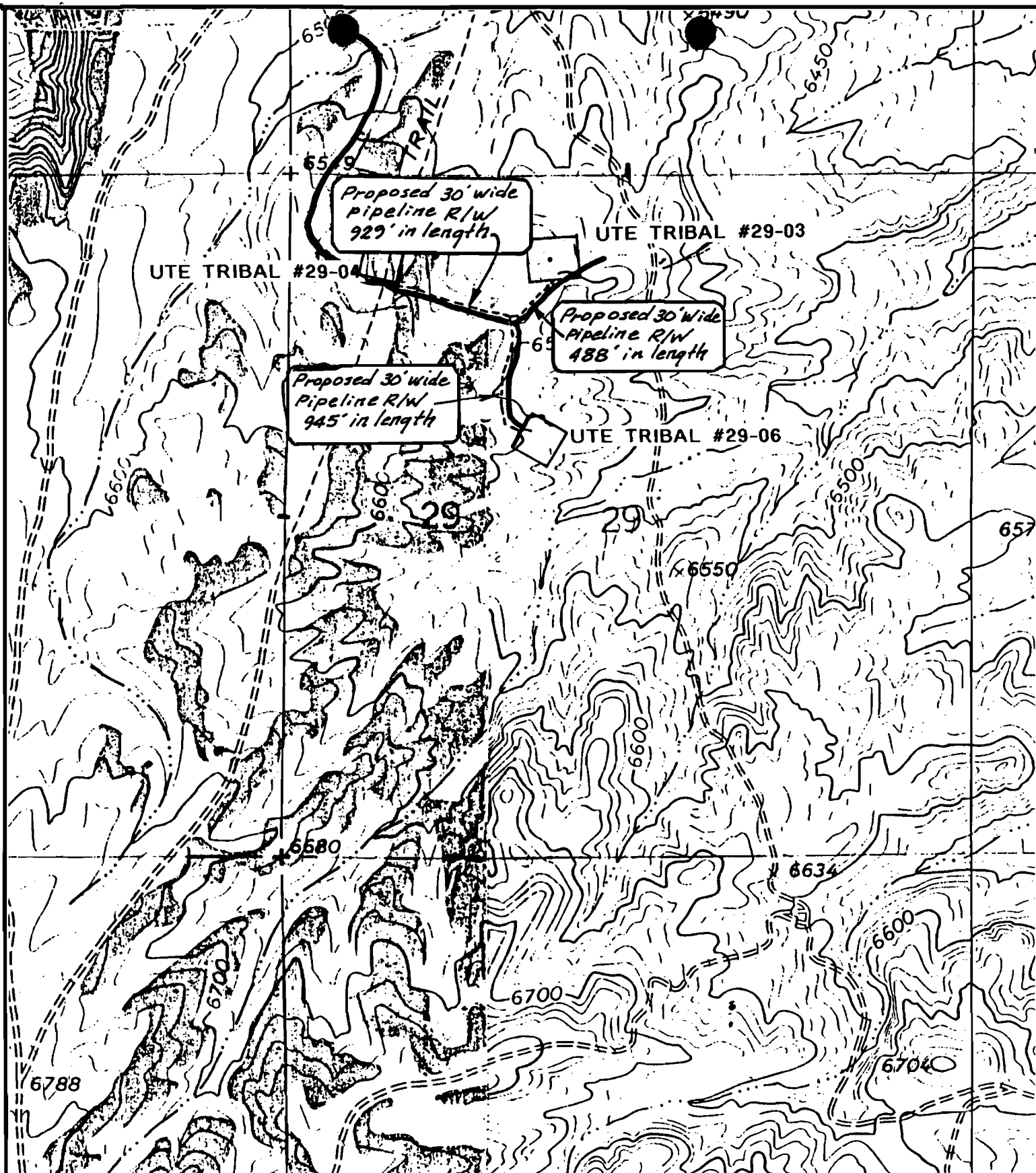
SECTION 29, T5S, R3W, U.S.B.&M.

TOPOGRAPHIC MAP

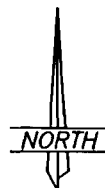
"C"

JERRY D. ALLRED & ASSOCIATES
121 NO. CENTER ST. P.O. BOX 975
DUCHESNE, UTAH 84021 (801) 738-5352

SCALE: 1"=2000'
DATE: 30 Dec '96 PROJ. NO. 96-125-004



TOPOGRAPHIC MAP
"D"



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #29-03
SECTION 29, T5S, R3W, U.S.B.&M.

JERRY D. ALLRED & ASSOCIATES
121 NO. CENTER ST. P.O. BOX 975
DUCHESNE, UTAH 84021 (801) 738-5352

SCALE: 1" = 1000'

DATE: 31 Dec '96

PROJ. NO. 96-125-004

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/11/97

API NO. ASSIGNED: 43-013-31842

WELL NAME: UTE TRIBAL 29-03
OPERATOR: PETROGLYPH OPERATING (N3800)

PROPOSED LOCATION:

NENW 29 - T05S - R03W
SURFACE: 0624-FNL-1987-FWL
BOTTOM: 0624-FNL-1987-FWL
DUCHESNE COUNTY
ANTELOPE CREEK FIELD (060)

LEASE TYPE: IND
LEASE NUMBER: 14-20-H62-3518

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Federal [☒ State[] Fee[]
(Number 804596)
☒ Potash (Y/N)
☒ Oil shale (Y/N)
☒ Water permit
(Number 43-10152)
☒ RDCC Review (Y/N)
(Date: _____)

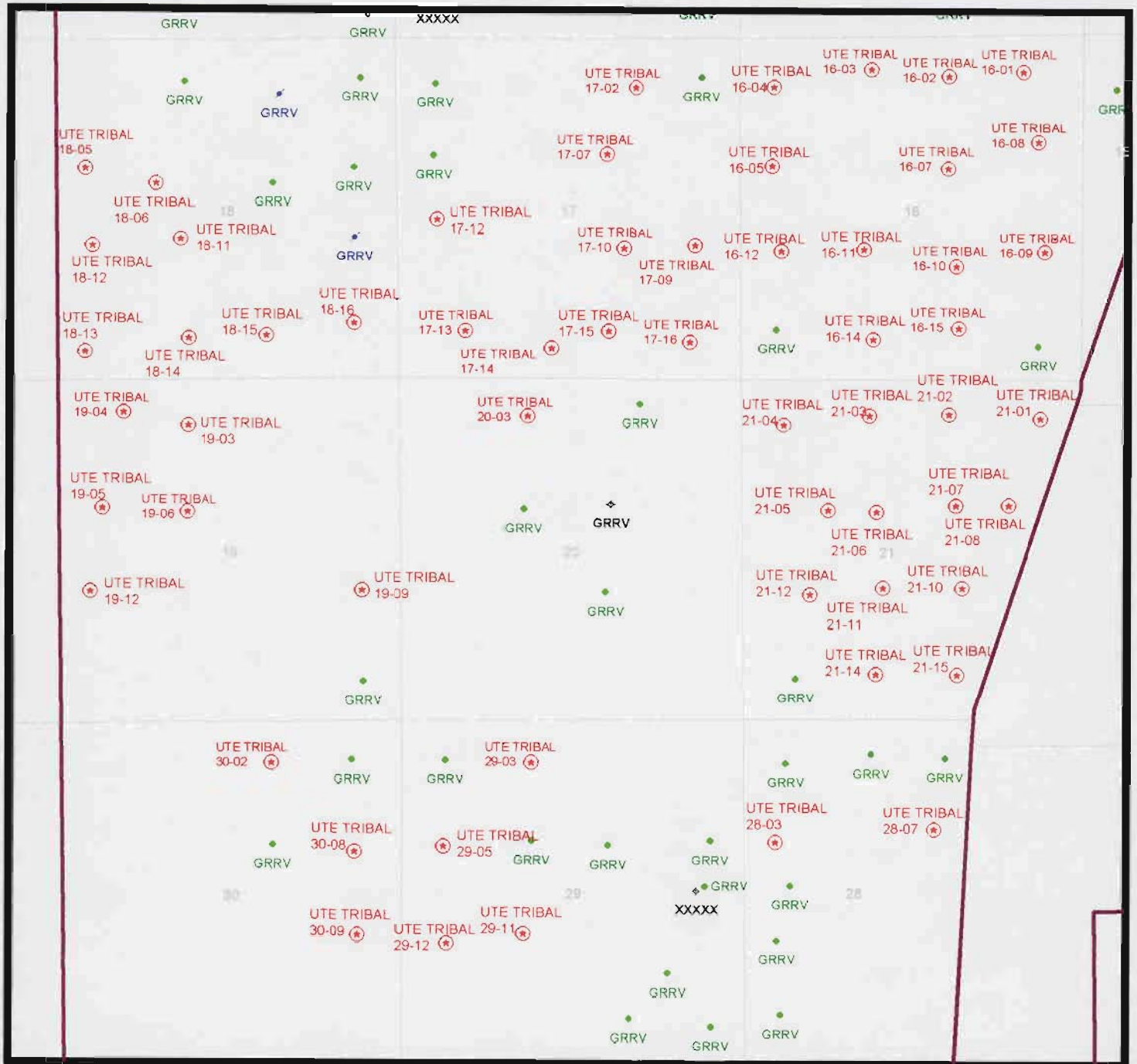
LOCATION AND SITING:

____ R649-2-3. Unit: _____
☒ R649-3-2. General.
____ R649-3-3. Exception.
____ Drilling Unit.
____ Board Cause no: _____
____ Date: _____

COMMENTS: _____

STIPULATIONS: _____

OPERATOR: PETROGLYPH
FIELD: ANTELOPE CREEK (060)
SEC. TWP. RNG: 16,17,18,19,29,33, T5S, R3W
COUNTY: DUCHESNE
UAC: R649-3-2 & R649-3-3



PREPARED:
DATE: 13-MAR-97



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

March 17, 1997

Petroglyph Operating Company, Inc.
P.O. Box 607
Roosevelt, Utah 84066

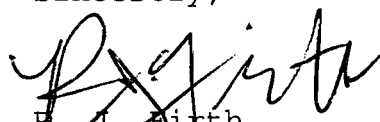
Re: Ute Tribal 29-03 Well, 624' FNL, 1987' FWL, NE NW, Sec. 29,
T. 5 S., R. 3 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31842.

Sincerely,


R. J. BIRTH
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal District Office

Operator: Petroglyph Operating Company, Inc.
Well Name & Number: Ute Tribal 29-03
API Number: 43-013-31842
Lease: 14-20-H62-3518
Location: NE NW Sec. 29 T. 5 S. R. 3 W.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact R. J. Firth (801)538-5274 or Mike Hebertson at (801) 538-5333.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

PETROGLYPH OPERATING COMPANY, INC.

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

624' FNL & 1987' FWL NE/NW

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20.1 MILES SOUTHWEST OF MYTON, UTAH

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 624'
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

5770'

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6542' GRADED GROUND

22. APPROX. DATE WORK WILL START*

MARCH, 1997

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0#	250'	135 sx class "G" + 2% CaCl ₂
7 7/8	5 1/2	15.5#	5770'	+ 1/4 #/sx celloflake.
50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG +) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).				

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED
OPERATOR OF THE SUBJECT WELL UNDER BOND # BO 4556.pc: Utah Division of Oil, Gas, and Mining
Bureau of Indian Affairs, Fort Duchesne, Utah
Ute Tribe, Fort Duchesne, Utah

RECEIVED

MAR 16 1997

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE AGENT FOR PETROGLYPH

DATE

3-7-97

(This space for Federal or State office use)

PERMIT NO.

NOTICE OF APPROVAL

APPROVAL DATE

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPYApplication approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

ACTING

Assistant Field Manager

MAR 17 1997

APPROVED BY

TITLE

Mineral Resources

DATE

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

memorandum

DATE: FEBRUARY 20, 1997

REPLY TO
ATTN OF:

Superintendent, Uintah & Ouray Agency

SUBJECT:

Concurrence Letter for Petroglyph Operating Company

TO: Ute Tribal 08-08, SENE, Sec. 8, T5S, R3W Ute Tribal 08-09, NESE, T5S, R3W
 Ute Tribal 08-15, SWSE, Sec. 8, T5S, R3W Ute Tribal 08-16, SESE, Sec. 8, T5S, R3W
 Ute Tribal 09-13, SE/4, SWSW, Sec. 8 & 9, T5S, R3W Ute Tribal 17-08, SENE, Sec. 17 T5S, R3W
 Ute Tribal 18-05, SWNW, Sec. 18, T5S, R3W Ute Tribal 29-03, NENW, Sec. 29, T5S, R3W
 Corridor includes: 1. Access Road, 2. One buried 3" steel oil pipeline. 3. One buried 3" poly water pipeline. 4. One buried 3" poly gas pipeline. 5. One buried 6" steel water pipeline. 6. One surface 4 1/2 steel production pipeline, 7. Electrical powerline right-of-way.

Bureau of Land Management, Vernal District Office
 Attention: Minerals and Mining Division

We recommend approval of the Application for Permit to Drill on the subject well.

Based on available information received on February 20, 1997, we cleared the proposed location in the following areas of environmental impact.

RECEIVED

FEB 26 1997

YES ☒ NO ☐ Listed threatened or endangered species
 YES ☒ NO ☐ Critical wildlife habitat
 YES ☒ NO ☐ Archaeological or cultural resources
 YES ☐ NO ☐ Air quality aspects (to be used only if
 project is in or adjacent to a Class I area of attainment
 YES ☐ NO ☐ Other (if necessary)

REMARKS: The Ute Tribe Energy & Minerals Department is recommending the following criteria to be adhered during all phases of construction activities.

1. The Ute Tribe Energy & Minerals Department is to notified 48 hours prior to construction, as a Tribal Technician is to monitor construction.
2. 50 foot corridor rights-of-way shall be granted with the following:
 - A. Buried pipelines shall be buried a minimum of 3 feet below soil surface.
 - B. Access roads shall be limited to 22 feet, except as granted for sharp turns.
 - C. Surface pipelines shall be limited to 13 feet.
 - D. Buried pipelines shall be limited to 15 feet wide, and construction will be monitored by Tribal Technician.
3. Pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Additional pipelines shall be parallel to each other, as safety requirements will allow.
4. Petroglyph Operating Company will assure the Ute Tribe that any/all contractors and any sub-contracts has acquired a Tribal Business License and have an access permit(s) prior to construction.
- 5 All vehicular traffic, personnel movement, construction and restoration operations should be confined to the area examined, as referenced in report, and to the existing roadways and/or evaluated access routes.
6. All recommendations of the Bureau of Indian Affairs, combined site specific Environmental Analysis report shall strictly adhered.

7. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

8. The personnel from the Ute Tribe Energy & Minerals Department should be consulted, should cultural remains from subsurface deposits be exposed during construction work.

9. Upon completion of Application for Right-of-way, the Ute Tribe Energy and Minerals Department will be notified by Petroglyph Operating Company, so that a Tribal Technician can verify Affidavit of Completion's.

ATTACHMENT: BIA Environmental Analysis Reports for each location

**SITE SPECIFIC
ENVIRONMENTAL ANALYSIS**

1.0 PROPOSED ACTION

Petroglyph Operating Co., Inc. is proposing to drill oil well #29-03, and construct pipelines, access roads, and powerlines in approximately 2361 feet of corridor right-of-way.

2.0 ALTERNATIVE ACTIONS

- A. ALTERNATIVE CONSIDERED: The proposed action is the preferred alternative.
- B. NO ACTION: Under the no action alternative the proposed action would not be implemented.
- C. OTHER: NA

3.0 PERMITTEE/LOCATION

- A. Permittee- Petroglyph Operating Co., Inc.
- B. Date 1-22-97
- C. Well number- 29-03
- D. Right-of-way- Corridor R\W approx. 2361 feet.
- E. Site location-SWSW, Section 20, & N1/2, Section 29, T5S, R3W, USB&M.

4.0 SITE SPECIFIC SURVEY

A. SITE DESCRIPTION

- 1. Elevation (feet) 6548
- 2. Annual precipitation (inches)- 12-14
- 3. Topography- rolling hills
- 4. Soil- The soil texture is (0 to 6") gravelly shale loam with moderate permeability.

B. VEGETATION

- 1. Habitat type is upland shrub & pinion/juniper.
- 2. Percent Ground Cover- estimated to be 40%.
- 3. Vegetation consists of approximately 18% grasses, 46% shrubs, 8% forbs & 10% trees. The main variety of grasses are squirrel tail, Indian ricegrass, poa, needle & thread, bluebunch wheat, galleta, and blue grama. Forbs are astragalus, mustard, lambs quarter, globemallow, buck wheat, & annuals. Shrubs consist of black sagebrush, prickly pear, shadscale. Trees are pinion pine and Utah Juniper.

Cultural Resource Surveys were performed by James A. Truesdale, an Independent Archaeologist.

5.0 ENVIRONMENTAL IMPACTS

A. SURFACE ALTERATIONS

	<u>acres</u>
1. Access road	0.00
2. Well site	2.82
3. Pipeline right-of-way	0.00
4. Corridor right-of-way	2.71
5. Total area disturbed	5.53

B. VEGETATION/LANDSCAPE

1. Production loss (AUM's)/year: 0.3
2. Permanent scar on landscape: Yes x No
3. Potential impacts to Threatened & Endangered species:
Yes No X

C. SOIL/RANGE/WATERSHED

There will be an increase in soil erosion from wind and water. There will not be any possible point source of water pollution.

The area is presently used as rangeland. In recent years the area has been permitted for livestock grazing, but at the present time no permits have been issued for the area. This project will reduce livestock grazing by approximately 0.3 AUM/year.

The area is not used as irrigated cropland and a water right has not been designated for the area.

D. WILDLIFE/THREATENED & ENDANGERED SPECIES

There will be an insignificant reduction of wildlife habitat and grazing for livestock. There will also be an increase in wildlife disturbance and poaching resulting from the additional traffic and people using the area.

There are no known impacts to Threatened or Endangered species but is important habitat for the Ferruginous hawk. The area is important winter range for big game.

Ferruginous Hawks use this area for nesting and hunting. There is an nest in Section 20.

6.0 MITIGATION STIPULATIONS

A. VEGETATION/LANDSCAPE

1. Before the site is abandoned the company will be required to restore the well site and right-of-ways to near their original state. The disturbed area will be reseeded with desirable perennial vegetation.
2. Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

B. SOILS/RANGE/WATERSHEDS

1. Soil erosion will be mitigated by reseeding all disturbed areas.

2. SURFACE PIPELINES

Surface pipelines will be constructed to lay on the soil surface, and the right-of-way will not be bladed or cleared of vegetation.

Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way.

Where pipelines do not parallel roads but cross country between stations, they shall be welded in place at wellsites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

3. BURIED PIPELINES

Buried pipelines shall be buried a minimum of 3.0 feet below the soil surface. After construction of the pipeline is completed the disturbed area of the right-of-way shall be contoured to blend into the natural landscape, and it shall be reseeded with desirable vegetation.

Where pipelines are buried adjacent to access roads the first pipeline shall be buried within 1.5 feet from the outside edge of the barrow ditch of the road. If additional pipelines are needed they shall be constructed to parallel the outer side of the first pipeline, and they shall be constructed as close to the first pipeline as safety requirements allow.

4. CORRIDOR RIGHT-OF-WAY

To reduce surface damages a 50 foot wide corridor right-of-way will be used for the access road, surface

pipelines, buried pipelines, and electrical powerlines.

The constructed travel width of the access road shall be limited to 22 feet, except it may be wider where sharp curves, or intersections are required.

Surface pipelines shall be constructed on one side of the access roads and buried pipelines shall be constructed on the opposite side. The width of the right-of-way used for surface pipelines shall be limited to 13 feet, and buried pipelines shall be limited to 15 feet.

3. An open drilling system will be used. Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the surplus oil and mud, etc will be buried a minimum of 3.0 feet below the surface of the soil.

4. A closed production system will be used. Production fluids will be contained in leak proof tanks. All reduction fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

5. Although there is a 50 foot right-of-way the bladed area of the access road will be limited to 22 feet in all areas except where deep cuts and fills are required, sharp turns are required, or at the intersections with other roads.

C. WILDLIFE/VEGETATION/THREATENED & ENDANGERED SPECIES

Because the wellsite is located more than 1/2 mile from a Ferruginous hawk nest this wellsite may be constructed and drilled at any time throughout the year.

D. CULTURAL RESOURCES

Cultural resource surveys were performed by James A. Truesdale. The consultant recommends clearance of the project as it is presently staked.

E. UTE TRIBAL REGULATIONS

(1). Prior to commencing surveys or construction on the U&O Indian Reservation the operator, and any of its sub-contractors, shall acquire access permits and business permits from the Ute Indian Tribe.

(2). Prior to the commencement of construction, the operator shall notify the Ute Tribal Department of Energy and Minerals of the date construction shall begin.

7.0 UNAVOIDABLE ADVERSE IMPACTS

A. SURFACE ALTERATIONS

None of the adverse impacts listed in 5.0 above can be avoided in a practical manner except those which are mitigated in item 6.0 above and those specified in BLM's 13 point surface use plan.

B. RELATIONSHIP BETWEEN SHORT-TERM USE OF THE ENVIRONMENT VS LONG TERM PRODUCTIVITY.

1. Short Term: (Estimated 20 years) A total loss of production on the land and the associated environmental impacts will continue to influence the surrounding area for the productive life of the well.
2. Long Term: Standard policies provide for rehabilitation of wellsite and rights-of-ways. After the land is rehabilitated, it is not expected to return to its original productive capability. Normally, there will be a permanent scar left on the landscape.

C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT

Oil and Gas are non-renewable resources, once they have been removed they can never be replaced.

8.0 CUMULATIVE IMPACTS

A. FULL DEVELOPMENT

Each additional well drilled for development increases the soil erosion potential, reduces wildlife habitat and grazing, increases potential soil and geologic pollution resulting from salt loading, reduces the soil's potential to recover, and increases the potential of water pollution from produced waters and hydro-carbons. Therefore, strict conformance with the mitigation measures and recommendations in this document is emphasized to minimize the adverse environmental impacts.

9.0 NEPA COMPLIANCE

A. RESEARCH/DOCUMENTATION

Based on available information, 1-27-97, the proposed location in the following areas of environmental impacts has been cleared:

 X Yes No Listed Threatened & Endangered species

X Yes No Critical wildlife habitat
X Yes No Historical and cultural resources

10.0 REMARKS

A. SURFACE PROTECTION/REHABILITATION

All essential surface protection and rehabilitation requirements are specified above.

11.0 RECOMMENDATIONS

A. APPROVAL/DISAPPROVAL

We recommend approval of the proposed action as outlined in item 1.0 above.

1-27-97
Date

Dale A. Hanbury
Representative - BIA Land
Operations, Uintah and Ouray
Agency

12.0 DECLARATION

A. APPROVAL

It has been determined that the proposed action is not a federal action significantly affecting the quality of the environment as it would require the preparation of an environmental impact statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (C).

1/28/97
Date

Allan Floyd
Acting Superintendent,
Uintah and Ouray Agency

14.0 CONSULTATION

A. REPRESENTATIVES/ORGANIZATION

Hanbury W.H.
Dale ~~Thomas~~ BIA
Ed Trotter-Petroglyphs
Lonnie Nephi-UTEM
Greg Darlington-BLM

B:\EAPet29.03

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.

Well Name & Number: Ute Tribal 29-03

API Number: 43-013-31842

Lease Number: 14-20-H62-3518

Location: NENW Sec. 29 T.5S R. 3W

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water, identified at 1007 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077
Petroleum Engineer

Wayne P. Bankert (801) 789-4170
Petroleum Engineer

Jerry Kenczka (801) 781-1190
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

SURFACE CONDITIONS OF APPROVAL

The Surface Use Conditions of Approval all come from the Bureau of Indian Affairs Concurrence Memorandum and Site Specific Environmental Analysis.

The Ute Tribe Energy and Mineral Department is to be notified 48 hours prior to construction. A Tribal Technician is to monitor construction.

Fifty (50) foot wide Rights-Of-Way (ROWs) corridor shall be granted for the following:

Access roads which shall have constructed travel width limited to 22 feet, except as granted for sharp curves or intersections.

Surface pipelines shall be limited to 13 feet of the ROW. The pipeline will be constructed to lay on the soil surface, and the ROW for the pipeline will not be bladed or cleared of vegetation.

Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the ROW. Where pipelines cross country between stations, they shall be welded in place at wellsites or on roads and then pulled into place with suitable equipment. Traffic will be restricted along these areas so that the pipeline ROW will not be used as an access road.

Buried pipelines shall be buried a minimum of 3 feet below the soil surface within an area of disturbance limited to 15 feet wide, and construction will be monitored by a Tribal Technician.

Buried pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Any additional buried pipelines shall be parallel to the outer side of the first buried pipeline and shall be constructed as close to the first pipeline as safety requirements allow.

After construction of the buried pipeline is completed the disturbed area of the right-of-way shall be contoured to blend into the natural landscape and it shall be reseeded with desirable vegetation as recommended by the BIA.

Petroglyph will assure the Ute Tribe that any/all contractors and subcontractors have acquired a Tribal Business License and have access permits prior to construction.

All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.

All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

The Ute Tribe Energy & Mineral Department shall be consulted if cultural remains from subsurface deposits are exposed or identified during construction.

Before the site is abandoned, the company will be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the cuttings and mud, etc. left in them to be buried will be buried a minimum of three feet below the surface of the soil.

A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

Upon completion of the project approved under this Application for Permit to Drill and Right-of-way, the Ute Tribe Energy & Minerals Resources Department will be notified by Petroglyph Operating Company so that a Tribal Technician can verify Affidavit of Completion's.

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

Name of Company: PETROGLYPH OPERATING

Well Name: UTE TRIBAL 29-03

Api No. 43-013-31842

Section 29 Township 5S Range 3W County DUCHESNE

Drilling Contractor

Rig #

SPUDDED:

Date 4/7/98

Time

How DRY HOLE

Drilling will commence

Reported by GENE

Telephone #

Date: 4/6/98 Signed: JLT

✓

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR Petroglyph Operating Company, Inc.
ADDRESS P. O. Box 607
Roosevelt, UT 84066

OPERATOR ACCT. NO. N3900

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	12139	→	43-013-31842	Ute Tribal 29-03	NENW	29	5S	3W	Duchesne	4/7/98	
WELL 1 COMMENTS: CONFIDENTIAL Entity added 4-17-98. (Common Tank) Lec											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group of unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Deanna Bell
Signature Deanna Bell

Operations Coordinator 4/15/98
Title Date

Phone No. (435) 722-2531

Form 7

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING**REPORT OF WATER ENCOUNTERED DURING DRILLING**

1. Well name and number: Ute Tribal 29-03
API number: 43-013-31842
2. Well Location: QQ NENW Section 29 Township 5S Range 3W County Duchesne
3. Well Operator: Petroglyph Operating Company, Inc.
Address: P.O. Box 607
Roosevelt, UT 84066 Phone: (435) 722-2531
4. Drilling Contractor: Union Drilling
Address: P.O. Drawer 40
Buckhannon, WV 26201 Phone: (304) 472-4610
5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
<u>0</u>	<u>97</u>	<u>Damp</u>	
	<u>782</u>	<u>Damp.</u>	

6. Formation tops: _____

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 4-20-98

Name & Signature [Signature] Title: Operations Manager

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: Ute Tribal 29-03
 API number: 43-013-31842
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FROM	TO		
<u>0</u>	<u>??</u>	<u>Damp</u>	
	<u>782</u>	<u>Damp.</u>	

6. Formation tops: _____

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 4-20-98

Name & Signature [Signature] Title: Operations Manager

SUBMIT IN DUPLICATE
(See other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
(Expires August 31, 1985)

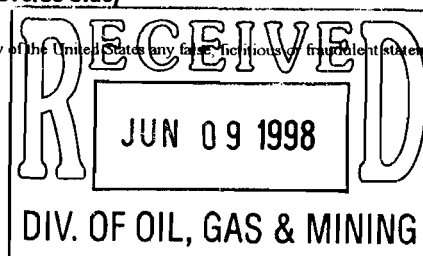
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. a. TYPE OF WELL: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other <input type="checkbox"/>		7. UNIT AGREEMENT NAME 14-20-H62-4650	
b. TYPE OF COMPLETION: New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Reserve <input type="checkbox"/> Other <input type="checkbox"/>		8. FARM OR LEASE NAME	
2. NAME OF OPERATOR PETROGLYPH OPERATING COMPANY, INC.		9. WELL NO. Ute Tribal 29-03	
3. ADDRESS OF OPERATOR P.O. BOX 607, ROOSEVELT, UT 84066 (435) 722-2531		10. FIELD AND POOL, OR WILDCAT Antelope Creek	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 624' FNL 1987 FWL At top prod. interval reported below At total depth 6177' RTD		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA NENW SEC. 29-T5S-R3W	
14. PERMIT NO. 43-013-31842		DATE ISSUED 3/17/97	
15. DATE SPUDDED 4/7/98		16. DATE T.D. REACHED 4/17/98	
17. DATE COMPLETED (Ready to prod.) 5/14/98		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6552' KB	
19. ELEV. CASINGHEAD 6542' GGL		20. TOTAL DEPTH, MD & TVD 6177' TD	
21. PLUG BACK T.D., MD & TVD 6092' PBTD		22. IF MULTIPLE COMPL., HOW MANY* 7	
23. INTERVALS DRILLED BY ROTARY TOOLS		CABLE TOOLS	
24. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* Green River B1, B6.3, B8, C5, C5.2, C6.1, C9.2		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray to surface, Density-Compensated Neutron Porosity, AIT (normal suite)		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
8-5/8"	24.0#	264'	12-1/4"
5-1/2"	15.5#	6136'	7-7/8"
CEMENTING RECORD			
160 sxs Type 5, 2% CaCl ₂ , .25#/sk cellophane flake			
120 sxs Highfill, 350 sxs Thixotropic			
AMOUNT PULLED			
29. LINER RECORD			
SIZE	TOP	BOTTOM (MD)	SACKS CEMENT*
SCREEN (MD)			
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2-7/8"	5156'		
31. PERFORATION RECORD (Interval, size and number)			
CONFIDENTIAL			
C9.2 4998-5004' (24 holes) B6.3 4243-50' (28 holes)			
C6.1 4856-60' (16 holes) B1 4064-68' (16 holes)			
C5.2 4795-99' (16 holes)			
C5 4736-42' (24 holes)			
B8 4381-86' (20 holes)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)			
AMOUNT AND KIND OF MATERIAL USED			
4998-5004' 7401 gals Boragel 30, 12500# 20/40 prop & 19000# 16/30 prop			
4856-60' 6244 gals Boragel 30, 28000# 20/40 prop			
4795-99' 6305 gals Boragel 30, 31000# 20/40 prop			
4736-42' 9905 gals Boragel 30, 15500# 20/40 prop & 23400# 16/30 prop			
4381-86' 8021 gals Boragel 30, 13000# 20/40 prop & 19000# 16/30 prop			
33. PRODUCTION			
DATE FIRST PRODUCTION 5/21/98		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) 2 1/2" x 1-3/4" x 16' 40 ring PA pump	
WELL STATUS (Producing or shut-in) producing			
DATE OF TEST 5/26/98	HOURS TESTED 24	CHOKE SIZE	PROD'N FOR TEST PERIOD
OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
0	72		
FLOW TUBING PRESS.	CASING PRESSURE 1000	CALCULATED 24 HR. RATE	OIL - BBL.
GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold, used for fuel			
TEST WITNESSED BY Rick Oman			
35. LIST OF ATTACHMENTS 32. Fracturing (see reverse side for additional information)			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
Signed <u>Heanna Bell</u>		Title <u>Operations Coordinator</u>	
Date <u>6/1/98</u>			

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly or willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERL. DEPTH
Ute Tribal 29-0						
B Marker	4050					
X Marker	4538					
Douglas Creek	4671					
B Limestone	5058					
Castle Peak	5604					
Basal Carbonate	6029					
CONFIDENTIAL						
32. continued from reverse side						
4243-50' 7400 gals Boragel 30, 12800# 20:40 prep & 19300# 16:30 prep						
4064-68' 7806 gals Boragel 30, 12500# 20:40 prep & 19000# 16:30 prep						

38. GEOLOGIC MARKERS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Petroglyph Operating Company, Inc.

3. Address and Telephone No.

P.O. Box 607, Roosevelt, UT 84066 (435) 722-2531

4. Location of Well (Footage, Sec., T., R., or Survey Description)

624' FNL 1987' FWL
NENW Sec. 29-T5S-R3W

5. Lease Designation and Serial No.

14-20-H62-3518

6. If Indian, Allottee or Tribe Name

Ute Indian Tribe

7. If Unit or CA, Agreement Designation

14-20-H62-4650

8. Well Name and No.

Ute Tribal 29-03

9. API Well No.

43-013-31842

10. Field and Pool, or Exploratory Area

Antelope Creek

11. County or Parish, State

Duchesne County, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other - Convert to Injector
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Petroglyph Operating Company, Inc. has submitted an application for a UIC permit to convert the Ute Tribal 29-03 from a producing well to an injection well under the EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area located in Duchesne County, Utah.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
MAR 09 2000
DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Signed Marlo Smith Title Operations Coordinator

Date 3-7-00

(This space for Federal or State official use)

Approved by _____ Title _____ Date _____

Conditions of Approval, if any:

UTE TRIBAL # 29-03
Wellbore Diagram

DATE: 01-12-2000

AFTER CONVERSION

WELL HISTORY:

SPUD WELL: 04-07-98

FIRST PRODUCTION: 05-21-98

05-06-98 B.1 ZONE

PERFS, 4064 TO 4068'

FRACED, ISIP 1759 PSI.

05-05-98 B6.3 ZONE

PERFS, 4243 TO 4250', 4SPF

FRACED, ISIP 2432 PSI.

05-05-98 B 8 ZONE

PERFS, 4381 TO 4386', 4SPF

FRACED, ISIP 2776 PSI.

05-05-98 C 5 ZONE

PERFS, 4736 TO 4742', 4SPF

FRACED, ISIP 3379 PSI.

05-04-98 C 5.2 ZONE

PERFS, 4795 TO 4799, 4SPF

FRACED, ISIP 2150 PSI.

05-04-98 C 6.1 ZONE

PERFS, 4856 TO 4860, 4SPF

FRACED, ISIP 2150 PSI.

05-04-98 C 9.2 ZONE

PERFS, 4998 TO 5004', 4SPF

FRACED, ISIP 2668 PSI.

GL: 6542'

KB: 6552'

Surface Hole Size 12 1/4"

8 5/8" 24# Surface Csg @
264' KB Cmt'd w/ 160 SXS

Hole Size: 7 7/8" Bit.

Cement Tops:
1st Stage: 1508'

5 1/2" 15.5# CSG @ 6136'
CMT'd W/ 470 SXS. 1st Stage

124 JTS. 2 3/8" 4.7#
TUBING SET ON PACKER
AT 3970'

RECEIVED

MAR 09 2000

DIVISION OF
OIL, GAS AND MINING

PBTD @ 6092'
TD @ 6177' KB

Petroglyph Operating Co., Inc.

Ute Tribal # 29-03

624' FNL AND 1987 FNL

NE NW SEC. 29-55-3W

Antelope Creek Field

Duchesne Co, Utah

Lease # 14-20-462-3518

API# 43-013-31842

(Not to Scale)

Form 3160-5
(August 1999)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposalsFORM APPROVED
OMB No. 1004-0135
Expires November 30, 20005. Lease Serial No.
1420H6235186. If Indian, Allottee or Tribe Name
UTE INDIAN TRIBE7. If Unit or CA Agreement, Name and No.
1420H6246508. Lease Name and Well No.
UTE TRIBAL 29-039. API Well No.
430133184210. Field and Pool, or Exploratory
ANTELOPE CREEK11. County or Parish, State
DUCHESNE, UT**SUBMIT IN TRIPLICATE- Other Instructions on reverse side**

1. Type of Well:

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION**2. Name of Operator **PETROGLYPH OPERATING COMPANY.**
CONTACT: MICHEAL SAFFORD COORDINATOR
EMAIL: mikes@petroglyph.net3a. Address **P.O. BOX 607**
ROOSEVELT, UT 840663b. Phone No. (include area code)
TEL: 435.722.2531 EXT:
FAX: 435.722.9145

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 29 T05S R03W NENW 624FNL 1987FWL**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give the subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of involved operations. If the operation results in multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The Ute Tribal 29-03 has been converted to an injection well on 9/6/00**see attached EPA well rework form.****Current status: Waiting on EPA for approval to inject.****Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

Name (Printed/Typed)	Title
Signature	Date

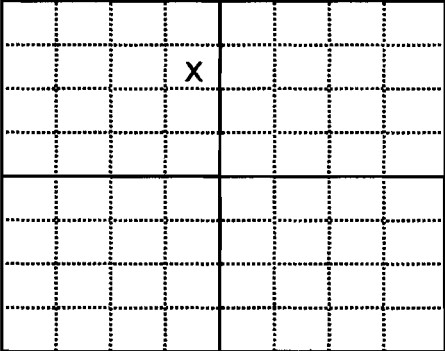
THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

**ELECTRONIC SUBMISSION #2099 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR PETROGLYPH
OPERATING COMPANY, SENT TO THE VERNAL FIELD OFFICE**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 WASHINGTON, DC 20460
EPA**WELL REWORK RECORD**

NAME AND ADDRESS OF PERMITTEE Petroglyph Operating Company, Inc. P.O. Box 1839 Hutchinson, KS 67504-1839		NAME AND ADDRESS OF CONTRACTOR Ute Indian Tribe		
LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT -- 640 ACRES <div style="text-align: center;"> N  </div>	STATE UT	COUNTY Duchesne	PERMIT NUMBER UT2736-04541	
	SURFACE LOCATION DESCRIPTION NE 1/4 OF NW 1/4 SECTION 29 TOWNSHIP 5S RANGE 3W			
	LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location 624 ft. from North Line of quarter section and 1987 ft. from West Line of quarter section			
	WELL ACTIVITY <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage	Total Depth Before Rework 6177 Total Depth After Rework 6177 Date Rework Commenced 9/6/2000 Date Rework Completed 9/12/2000	TYPE OF PERMIT <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Area Number of Wells 1 Well Number Ute Tribal 29-03	
	Lease Name Ute Tribal			

WELL CASING RECORD - BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8-5/8" 24#	264	160	Type 5	4998	5004	7401 gal Boragel 30, 12500# 20/40 prop & 1900# 16/30 prop
5-1/2" 15.5#	6136	470	120 sxs Highfill	4856	4860	6244 gal Boragel 30, 28000# 20/40 prop
			350 sxs Thixotropic	4795	4799	6305 gal Boragel 30, 31000# 20/40 prop
				4736	4742	9905 gal Boragel 30, 15500# 20/40 prop & 23400# 16/30 prop
				4381	4386	8021 gal Boragel 30, 13000# 20/40 prop & 19000# 16/30 prop

WELL CASING RECORD - AFTER REWORK (Indicate Additions and Changes Only)

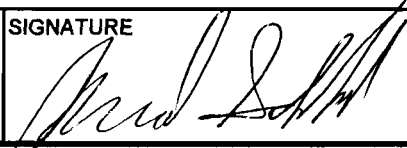
Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
Same as above						See attached page

 DESCRIBE REWORK OPERATIONS IN DETAIL
 USE ADDITIONAL SHEETS IF NECESSARY
WIRE LINE LOGS, LIST EACH TYPE

Log Types	Logged Intervals
Complete as injection w/ 2-3/8" @ 3985'. Set pkr, test annulus. Performed M.I.T. test.	CNL, AIT, CBL

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print) Micheal Safford Operations Coordinator	SIGNATURE 	DATE SIGNED 10/16/00
---	---	-------------------------

Ute Tribal 29-03

Page 2 Treatment record

Perforations		Acid or Fracture
From	To	Treatment Record
4241	4252	perf with 120 deg phasing 4 spf
4704	4707	perf with 120 deg phasing 4 spf
4710	4712	perf with 120 deg phasing 4 spf
4732	4742	perf with 120 deg phasing 4 spf
4994	5006	perf with 120 deg phasing 4 spf
4994	5006	Treat with 12 bbls of 15% HCL and 19.9 bbls of water to flush; ISIP 1610
4856	4860	
4795	4799	
4732	4742	treat with 18.9 bbls 15% HCL and 24 bbls water to flush; ISIP 1386
4704	4707	
4710	4712	
4381	4386	treat with 15 bbls 15% HCL and 16.9 bbls water to flush; ISIP 1644

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Designation and Serial No. 14-20-H62-3518
2. Name of Operator Petroglyph Operating Company, Inc.		6. If Indian, Allottee or Tribe Name Ute Indian Tribe
3. Address and Telephone No. P.O. Box 607, Roosevelt, UT 84066 (435) 722-2531		7. If Unit or CA, Agreement Designation 14-20-H62-4650
4. Location of Well (Footage, Sec., T., R., or Survey Description) 624' FNL 1987' FWL NENW Sec. 29-T5S-R3W		8. Well Name and No. Ute Tribal 29-03
		9. API Well No. 43-013-31842
		10. Field and Pool, or Exploratory Area Antelope Creek
		11. County or Parish, State Duchesne County, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other - Convert to Injector	<input type="checkbox"/> Dispose Water
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)		

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Petroglyph Operating Company, Inc. has submitted an application for a UIC permit to convert the Ute Tribal 29-03 from a producing well to an injection well under the EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area located in Duchesne County, Utah.

RECEIVED

OCT 11 2002

**DIVISION OF
OIL, GAS AND MINING**

14. I hereby certify that the foregoing is true and correct		
Signed <u>Marlo Smith</u>	Title <u>Operations Coordinator</u>	Date <u>3-7-00</u>
(This space for Federal or State official use)		
Approved by _____	Title _____	Date _____
Conditions of Approval, if any:		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter in its jurisdiction.

Form 3160-5
(August 1999)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposalsFORM APPROVED
OMB No. 1004-0135
Expires November 30, 20005. Lease Serial No.
1420H6235186. If Indian, Allottee or Tribe Name
UTE INDIAN TRIBE7. If Unit or CA Agreement, Name and No.
1420H6246508. Lease Name and Well No.
UTE TRIBAL 29-039. API Well No.
430133184210. Field and Pool, or Exploratory
ANTELOPE CREEK11. County or Parish, State
DUCHESNE, UT**SUBMIT IN TRIPLICATE- Other Instructions on reverse side**

1. Type of Well:

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION**2. Name of Operator **PETROGLYPH OPERATING COMPANY,**
CONTACT: MICHEAL SAFFORD COORDINATOR
EMAIL: mikes@petroglyph.net3a. Address **P.O. BOX 607**
ROOSEVELT, UT 840663b. Phone No. (include area code)
TEL: 435.722.2531 EXT:
FAX: 435.722.9145

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 29 T05S R03W NENW 624FNL 1987FWL**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give the subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of involved operations. If the operation results in multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The Ute Tribal 29-03 has been converted to an injection well on 9/6/00**see attached EPA well rework form.****Current status: Waiting on EPA for approval to inject.****RECEIVED**

OCT 11 2002

DIVISION OF
OIL, GAS AND MINING

Name (Printed/Typed)	Title
Signature	Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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ELECTRONIC SUBMISSION #2099 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR PETROGLYPH OPERATING COMPANY, SENT TO THE VERNAL FIELD OFFICE

Form 3160-5
(August 1999)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposalsFORM APPROVED
OMB No. 1004-0135
Expires November 30, 20005. Lease Serial No.
1420H6235186. If Indian, Allottee or Tribe Name
UTE INDIAN TRIBE7. If Unit or CA Agreement, Name and No.
1420H6246508. Lease Name and Well No.
UTE TRIBAL 29-039. API Well No.
430133184210. Field and Pool, or Exploratory
ANTELOPE CREEK11. County or Parish, State
DUCHESNE, UT**SUBMIT IN TRIPLICATE- Other Instructions on reverse side**

1. Type of Well:

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION**2. Name of Operator **PETROGLYPH OPERATING COMPANY,
CONTACT: MICHEAL SAFFORD COORDINATOR
EMAIL: mikes@petroglyph.net**3a. Address **P.O. BOX 607
ROOSEVELT, UT 84066**3b. Phone No. (include area code)
**TEL: 435.722.2531 EXT:
FAX: 435.722.9145**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 29 T05S R03W NENW 624FNL 1987FWL**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/>	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give the subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of involved operations. If the operation results in multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The Ute Tribal was put to injection on 11/20/00 after recieving authorization from the EPA.

RECEIVED**OCT 11 2002****DIVISION OF
OIL, GAS AND MINING**

Name (Printed/Typed)	Title
Signature	Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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ELECTRONIC SUBMISSION #2212 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR PETROGLYPH OPERATING COMPANY, SENT TO THE VERNAL FIELD OFFICE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
<http://www.epa.gov/region08>

JUL 31 2001

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Micheal Safford
Operations Coordinator
Petroglyph Operating Company, Inc.
P.O. Box 607
Roosevelt, UT 84066

RE: Authorization to Continue Injection
Ute Tribal #29-03
EPA Area Permit No. UT2736-00000
EPA Well Permit No. UT04541
Duchesne County, Utah

Dear Mr. Safford:

Thank you for submitting to the Region VIII Ground Water Program office of the Environmental Protection Agency (EPA) the results from the July 2, 2001, radioactive tracer survey (RATS) used to demonstrate Part II (External) Mechanical Integrity (MI) test on the Ute Tribal #29-03 injection well. In the letter accompanying the RATS results, you requested an extension on the time allowed to inject in order to allow for continued stabilization of pressure, and indicated your willingness to run RATS at set intervals until a maximum injection pressure of 1900 psig could be obtained, tested and approved. A limited injection period of up to one hundred and eighty days, beginning December 8, 2000, was authorized to allow for stabilization of the injection formation pressure prior to the demonstration of Part II (External) MI.

The results of the RATS have been reviewed and the EPA has determined that the test adequately demonstrated Part II MI, that injected fluids will remain in the authorized injection interval, at the tested pressure of 1700 psig. Therefore, EPA hereby approves this demonstration of Part II (External) MI and authorizes continued injection into the Ute Tribal #29-03 under the terms and conditions of EPA Area Permit UT2736-00000 and the

WF/SF/ID
RM

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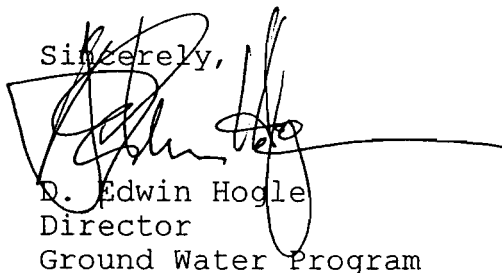
Printed on Recycled Paper

Authorization for Additional Well UT2736-04541 issued under this Area Permit. The maximum allowable injection pressure (MAIP) for this well is 1700 psig.

Please note that the maximum pressure used during a RATS MI demonstration becomes the maximum allowable injection pressure for the well. However, you may apply for a higher maximum allowable injection pressure at a later date after the formation pressure has further stabilized. Your application should be accompanied by the interpreted results from a step rate test that measure the formation fracture pressure and fracture gradient at this location. A copy of EPA guidelines for running and interpreting a step rate test are included with this letter. Should the step rate test result in approval of a higher MAIP, a new Part II (External MI demonstration must be run. Please note that to use a pressure greater than the present MAIP of 1700 psig during a step rate test and RATS, you must first receive prior written authorization from the Director. EPA noted during the review of the submitted RATS that there was no indication on the log of fluid flow into the top set of perforations. Therefore in future RATS run on this well, we recommend you hold the tool just above the uppermost perforations while injecting tracer (see Step No. 8 of the enclosed guidelines), and hold the tool at this depth for thirty (30) minutes rather than fifteen (15) minutes to ensure recording of any tracer fluid flow into or above the top set of perforations.

If you have any questions in regard to the above action, please contact Chuck Tinsley at 303.312.6266 or Dan Jackson at 303.312.6155. Results from temperature log or other Part II MI test should be mailed directly to the Ground Water Program Director, Mail Code 8P-W-GW.

Sincerely,



D. Edwin Hogle
Director
Ground Water Program

enclosure: Step-Rate Test Procedure

cc: Mr. D. Floyd Wopsock, Chairman
Uintah & Ouray Business Council
Ute Indian Tribe

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Ms. Elaine Willie
Environmental Director
Ute Indian Tribe

Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
Bureau of Land management
Vernal District Office

Mr. Nathan Wiser, ENF-T
USEPA

RECEIVED AUG 10 2001

FEBRUARY 28, 1996

U.S. EPA REGION VIII

**RADIOACTIVE TRACER SURVEY
GUIDELINES AND PROCEDURES**

The purpose of running a Radioactive Tracer Survey (RATS) in the referenced injection well is to show whether injected fluids will migrate vertically outside the casing after reaching the perforations. This guidance should be used to develop a specific procedure which accounts for the actual construction and operation procedures of the well in question. The actual procedure to be used must be approved prior to running the log.

GUIDELINES

- a. The gamma ray log may be run up to 60 feet/minute at a time constant (TC) of 1 second, or up to 30 feet/minute at a TC of 2 seconds, or up to 15 feet/minute at a TC of 4 seconds. **INDICATE LOGGING SPEED AND TIME CONSTANT ON THE LOG HEADING.**
- b. The logging must be done while the well is injecting at normal operating pressure and injection volume. The injection rate and pressure should be brought to equilibrium conditions prior to conducting the RATS.
- c. **INCLUDE A COLLAR LOCATOR** for depth control, an injector, and two detectors (one above and one below the injector).
- d. Vertical scale may be 1 inch, 2 inches, or 5 inches per 100 feet.
- e. **INDICATE IN API UNITS (OR COUNTS PER SECOND) THE HORIZONTAL SCALE.** If one gamma curve is recorded, make sure the sensitivity used is such that the tracer material will be obvious when detected and will not be confused with normal "hot spots" in the formations (i.e., gamma ray sensitivity should be such that lithology can be correlated).
- f. **INDICATE BEGINNING AND ENDING CLOCK TIMES** on each log pass.
- g. **INDICATE INJECTION RATE AND PRESSURE** during each log pass.
- h. **INDICATE VOLUME OF FLUID INJECTED** between log passes.
- i. **INDICATE VOLUME AND CONCENTRATION OF EACH SLUG** of tracer material.

RECEIVED AUG 06 2001

- j. PROVIDE A PROFILE SHOWING THE PERCENTAGE OF FLUID LOSS ACROSS THE PERFORATED INTERVAL.

PROCEDURE

1. Using the same gamma ray sensitivity for the correlation log as outlined in paragraph (d) in the Guidelines, run a base log from the injection zone to at least 500 feet above the zone (or at least 200 feet above the top of the confining zone);
2. Commence operating well at normal operating injection rate and pressure and do so until pressure and rate stabilize;
3. Set injector just below the tubing packer assembly and inject a concentrated slug of tracer;
4. Reduce gamma ray sensitivity enough to keep the entire slug of tracer radiation within the width of the chart paper. To do this, a non-recorded pass through the slug may be run, setting the sensitivity appropriately. Drop tools to an appropriate depth below the slug and record log pass #1. Log above the upper interface until the radiation level returns to the same level as below the slug. Drop tools to an appropriate depth below the slug and record log pass #2 in the same manner as #1. Repeat this process until the slug dissipates to 1/10 of its original level (log pass #1). At this point, increase gamma ray sensitivity to the same as the base log. Make a log pass from the injection zone to 500 feet above the zone (or 200 feet above the confining zone). Drop tools to an appropriate depth below the slug, reduce sensitivity to the same as log pass #1, and record log pass up to the packer. Repeat this process until the tracer slug is gone or has stopped completely. Increase sensitivity to the same as the base log and make a final log pass from the injection zone to 500 feet above the zone (or 200 feet above the confining zone). This pass should duplicate the base log;
5. More than one pass may be shown on a log segment as long as each gamma ray curve along with its collar locator is distinguishable. Otherwise, make each pass on a separate log segment;
6. Set the RATS tool where the bottom detector is located just above the uppermost perforation and inject tracer;
7. As the slug is pumped past the bottom detector, the log trace should show an increase in gamma response;

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1/2 Hr.

8. Hold tool in this location for fifteen (15) minutes while pumping;
No fluid in top set of perfs.
9. An interpretation of the log must be supplied by the logging company, including a fluid loss profile across the perforations (in, at least, 25 percent increments);
10. Include a schematic diagram of the well on the log. The diagram should show the casing diameters and depths, tubing diameter and depth (if any), perforated intervals or open hole, total or plugged back total depth, and location of tool when slug injected. Indicate the pathway the tracer material appears to have taken by arrows.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 20 2000

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.*

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well Other <input checked="" type="checkbox"/> INJECTION		5. Lease Serial No. 1420H623518
2. Name of Operator PETROGLYPH OPERATING COMPANY,		6. If Indian, Allottee or Tribe Name UTE INDIAN TRIBE
3a. Address P.O. BOX 607 ROOSEVELT, UT 84066	3b. Phone No. (include area code) 435.722.2531	7. If Unit or CA/Agreement Name and/or No. 1420H624650
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1987FWL 624FNL		8. Well Name and No. UTE TRIBAL 29-03
		9. API Well No. 4301331842
		10. Field and Pool, or Exploratory Area ANTELOPE CREEK
		11. County or Parish, and State DUCHESNE UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be files within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The Ute Tribal was put to injection on 11/20/00 after recieving authorization from the EPA.

Electronic Submission #2212 verified by the BLM Well Information System for PETROGLYPH OPERATING COMPANY, Sent to the Vernal Field Office
Committed to AFMSS for processing by LESLIE CRINKLAW on 12/21/2000

Name (Printed/Typed) MICHEAL SAFFORD	Title COORDINATOR
Signature NOTED	Date 12/20/2000

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By NOTED	Title	Date JAN 17 2001
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	RECEIVED JAN 23 2001

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC - 5 2000

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	INJECTION	5. Lease Serial No. 1420H623518
2. Name of Operator PETROGLYPH OPERATING COMPANY,		6. If Indian, Allottee or Tribe Name UTE INDIAN TRIBE
3a. Address P.O. BOX 607 ROOSEVELT, UT 84066	3b. Phone No.(include area code) 435.722.2531	7. If Unit or CA/Agreement Name and/or No. 1420H624650
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1987FWL 624FNL		8. Well Name and No. UTE TRIBAL 29-03
		9. API Well No. 4301331842
		10. Field and Pool, or Exploratory Area ANTELOPE CREEK
		11. County or Parish, and State DUCHESNE UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be files within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The Ute Tribal 29-03 has been converted to an injection well on 9/6/00 see attached EPA well rework form. Current status: Waiting on EPA for approval to inject.

RECEIVED JAN 09 2001

Electronic Submission #2099 verified by the BLM Well Information System for PETROGLYPH OPERATING COMPANY, Sent to the Vernal Field Office Committed to AFMSS for processing by LESLIE CRINKLAW on 12/05/2000	
Name (Printed/Typed) MICHEAL SAFFORD	Title COORDINATOR
Signature	Date 12/04/2000

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>NOTED</u>	Title	Date -5 JAN 2001
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

EPA

WASHINGTON, DC 20460
WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE Petroglyph Operating Company, Inc. P.O. Box 1839 Hutchinson, KS 67504-1839		NAME AND ADDRESS OF CONTRACTOR Ute Indian Tribe																																																		
LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT -- 640 ACRES <div style="text-align: center;"> N <table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> S </div>											X																																							STATE UT	COUNTY Duchesne	PERMIT NUMBER UT2736-04541
				X																																																
SURFACE LOCATION DESCRIPTION NE 1/4 OF NW 1/4 SECTION 29 TOWNSHIP 5S RANGE 3W																																																				
LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location 624 ft. from North Line of quarter section and 1987 ft. from West Line of quarter section																																																				
WELL ACTIVITY <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage	Total Depth Before Rework 6177 Total Depth After Rework 6177 Date Rework Commenced 9/6/2000 Date Rework Completed 9/12/2000	TYPE OF PERMIT <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Area Number of Wells 1 Well Number Ute Tribal 29-03																																																		
Lease Name Ute Tribal																																																				

WELL CASING RECORD - BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8-5/8" 24#	264	160	Type 5	4998	5004	7401 gal Boragel 30, 12500# 20/40 prop & 1900# 16/30 prop
5-1/2" 15.5#	6136	470	120 sxs Highfill	4856	4860	6244 gal Boragel 30, 28000# 20/40 prop
		350 sxs Thixotropic		4795	4799	6305 gal Boragel 30, 31000# 20/40 prop
				4736	4742	9905 gal Boragel 30, 15500# 20/40 prop & 23400# 16/30 prop
				4381	4386	8021 gal Boragel 30, 13000# 20/40 prop & 19000# 16/30 prop

WELL CASING RECORD - AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
Same as above						See attached page
DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY						WIRE LINE LOGS, LIST EACH TYPE Log Types CNL, AIT, CBL
Complete as injection w/ 2-3/8" @ 3985'. Set pkr, test annulus. Performed M.I.T. test.						

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print) Micheal Safford Operations Coordinator	SIGNATURE	DATE SIGNED
---	-----------	-------------

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Ute Tribal 29-03

Page 2 Treatment record

Perforations		Acid or Fracture
From	To	Treatment Record
4241	4252	perf with 120 deg phasing 4 spf
4704	4707	perf with 120 deg phasing 4 spf
4710	4712	perf with 120 deg phasing 4 spf
4732	4742	perf with 120 deg phasing 4 spf
4994	5006	perf with 120 deg phasing 4 spf
4994	5006	Treat with 12 bbls of 15% HCL and 19.9 bbls of water to flush; ISIP 1610
4856	4860	
4795	4799	
4732	4742	treat with 18.9 bbls 15% HCL and 24 bbls water to flush; ISIP 1386
4704	4707	
4710	4712	
4381	4386	treat with 15 bbls 15% HCL and 16.9 bbls water to flush; ISIP 1644

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

AUG 16 2000

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Mike Safford
Operations Coordinator
Petroglyph Operating Company, Inc.
P.O. Box 607
Roosevelt, UT 84066

RE: Add Additional Well to Area Permit
Antelope Creek Waterflood
EPA Area Permit UT2736-00000
Duchesne County, Utah

Dear Mr. Safford:

Your request of February 24, 2000, that the following production well be converted to a Class II enhanced oil recovery well and added to the Antelope Creek Waterflood, as authorized under EPA Area Permit #UT2736-00000, is hereby granted.

<u>NAME</u>	<u>LOCATION</u>	<u>EPA WELL PERMIT NO.</u>
Ute Tribal #29-03	NE NW Section 29 T 5 S - R 3 W Duchesne County, UT	UT2736-04541

This additional well is within the boundary of the existing Area Permit for the Antelope Creek Waterflood (UT2736-00000), and this addition is made by according to the terms and conditions of that Permit. Unless specifically mentioned in this authorization, conversion is being made under the provisions of 40 CFR §144.33 and the terms and conditions of the original Permit. The proposed well location, well schematic, conversion procedures with/schematic, plugging and abandonment plan with/schematic, and Cement Bond Log (CBL), submitted by your office, have been reviewed and approved as follows:

- (1) The **conversion** plan for this production well has been reviewed, and found satisfactory. EPA analysis of the CBL for this well **has not** identified a minimum interval of adequate cement within the confining zone (3,930' 4,050'), pursuant to Region 8 Ground Water Section Guidance No. 34. Therefore, it **has not** been determined that cement in this well provides an effective barrier



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to upward movement of fluids through vertical channels adjacent to the wellbore (Part II Mechanical Integrity [MI] pursuant to 40 CFR § 146.8, 2.) The permittee is then required to demonstrate Part II MI, pursuant to Standards of Region 8 GROUND WATER SECTION GUIDANCE NO. 37, Demonstrating Part II (external) Mechanical Integrity for a Class II injection well permit.

- (2) Maximum injection pressure (MIP) - please reference the Final Area Permit UT2736-00000, Part II. Section C.5.(b). The maximum surface injection pressure (MIP) shall not exceed 1900 psig. Until such time that a step-rate injectivity test (SRT) has been performed and approved by the EPA, the initial maximum surface injection pressure for the Ute Tribal #29-03 shall not exceed 1900 psig.

Final Area Permit (UT2736-00000), has provisions whereby the operator may request an increase or decrease in the maximum surface injection pressure.

- (3) The plugging and abandonment plan and schematic, submitted by your office, has been reviewed, and approved.

Underground Sources of Drinking Water (USDWs). The base of the USDWs in the Ute Tribal #29-03 is approximately 1,283 feet below ground level and is located within the Uinta Formation. The source for this USDW information is formation water analyses submitted by the operator for twenty-two (22) wells within the initial AOR, and from Publication No. 92 (1987), prepared jointly by the USGS and the Utah of Oil, Gas, and Mining.

Injection Interval: Fluid injection shall be limited to the gross zones within the Green River Formation between the approximate depths of 4,050 feet (Top of "B" Marker) and 6,029 feet (Basal Carbonate). The injection (perforated) zones from 4,064 feet to 5,004 feet within this portion of the Green River Formation are comprised of porous and permeable lenticular calcareous sandstones interbedded with low permeability carbonates and calcareous shales. The lenticular sandstones vary in thickness from 1 to 30 feet and are individually separated by shale which act as isolation barriers (confining zones) for the waterflood.

Confining Zone: The overall confining zone above the top injection interval (4,064' - 4,068') is identified in this well from 3,930' to 4,050', and is overlain by impermeable Upper Green River Formation calcareous sandy lacustrine shales and continuous beds of microcrystalline dolomite.

Prior to commencing injection into this well, permittee shall fulfill Permit condition PART II, C. 2. and have submitted to the EPA, for review and approval, the following:

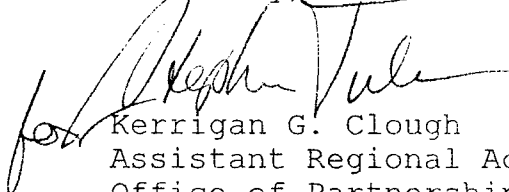
- (1) All conversion is complete and the permittee has submitted a completed Well Rework Record (EPA Form 7520-12); and
- (2) The pore pressure has been determined of the proposed injection zones; and
- (3) the Permittee has submitted for review and approval Part I (Internal) and Part II (External) of the mechanical integrity test (MIT); EPA form enclosed with current MIT Guidance.

Please be aware that Petroglyph does not have authorization to begin injection into the Ute Tribal #29-03 until the items listed above have been approved by the EPA and Petroglyph has received written authorization to begin injection from the EPA.

All other provisions and conditions of the Permit remain as originally issued July 12, 1994, and revised April 30, 1998.

If you have any questions, please contact Mr. Dan Jackson at 303.312.6155. Also, please direct the above requirements to the Ground Water Program Director at the above letterhead address, citing MAIL CODE 8P-W-GW. Thank you for your continued cooperation.

Sincerely,



Kerrigan G. Clough
Assistant Regional Administrator
Office of Partnerships and
Regulatory Assistance

Enclosure: Mechanical Integrity Test Form (MIT)
Current MIT Guidance No. 37

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cc: Mr. Roland McCook, Chairman
Uintah & Ouray Business Committee

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Norman Cambridge
BIA - Uintah & Ouray Agency

Mr. Jerry Kenczka
BLM - Vernal District Office

Mr. Gilbert Hunt
State of Utah Natural Resources
Division of Oil, Gas & Mining

RECEIVED AUG 18 2000

Mechanical Integrity Test
Casing or Annulus Pressure Test for Well WY2866-02130

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466
This form was printed on 08/02/1999.

EPA Witness: _____ Date ____/____/____

Test conducted by: _____

Others present: _____

TRIBAL S-1
STEAMBOAT BUTTE
Marathon Oil Company, Cody, WY

2R AC as of 06/15/1999
NENE 06 03N 01W
Op ID MAR04

Last MIT: Passed 10/27/1997
Max Allowed Press 1805 psig

Not witnessed by EPA
1998 Max Reported Press 1792 psig

Is this a regularly scheduled test? ☐ Yes ☐ No
Initial test for permit? ☐ Yes ☐ No
Test after well rework? ☐ Yes ☐ No

Well injecting during test? ☐ NO ☐ YES _____ BPD

Initial casing/tubing annulus pressure _____ psig
Does the annulus pressure build back up? ☐ Yes ☐ No

TUBING PRESSURE			
Initial	psig	psig	psig
End of Test	psig	psig	psig
CASING/TUBING ANNULUS PRESSURE			
Time	Test #1	Test #2	Test #3
0 min	psig	psig	psig
5			
10			
15 min			
20			
25			
30 min			
Result (circle)	Pass Fail	Pass Fail	Pass Fail



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

AUG - 9 1995

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 37
Demonstrating Part II (external) Mechanical Integrity
for a Class II injection well permit.

FROM: Tom Pike, Chief *Tom Pike*
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

During the review for a Class II injection well permit, consideration must be given to the mechanical integrity (MI) of the well. MI demonstrates that the well is in sound condition and that the well is constructed in a manner that prevents injected fluids from entering any formation other than the authorized injection formation.

A demonstration of MI is a two part process:

PART I - INTERNAL MECHANICAL INTEGRITY is an assurance that there are no significant leaks in the casing/tubing/packer system.

PART II - EXTERNAL MECHANICAL INTEGRITY demonstrates that after fluid is injected into the formation, the injected fluids will not migrate out of the authorized injection interval through vertical channels adjacent to the wellbore.

A Class II injection well may demonstrate Part II MI by showing that injected fluids remain within the authorized injection interval. This may be accomplished as follows:

- 1) Cement bond log showing 80% bond through the an appropriate interval (Section Guidance 34),
- 2) Radioactive tracer survey conducted according to a EPA-approved procedure, or
- 3) Temperature survey conducted according to a EPA-approved procedure (Section Guidance 38).

For each test option above, the operator of the injection well should submit a plan for conducting the test. The plan will then be approved (or modified and approved) by EPA. EPA's pre-approval of the testing method will assure the operator that the test is conducted consistent with current EPA guidance, and that the test will provide meaningful results.

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Part II MI may be demonstrated either before or after issuing the Final Permit. However, if Part II is to be demonstrated after the Final Permit is issued, a provision in the permit will require the demonstration of Part II MI. The well will also be required to pass Part II MI prior to granting authorization to inject.

Radioactive tracer surveys and temperature surveys require that the well be allowed to inject fluids as part of the procedure. In these cases, a well that has shown no other demonstration of Part II MI will be allowed to inject only that volume of fluid that is necessary to conduct the appropriate test.

After the results of the test proves that the well has passed Part II MI, the well will be given authorization to begin full injection operations.

If any of the tests show a lack of Part II MI, the well will be repaired and retested, or plugged (See Headquarters Guidance #76).

RECEIVED AUG 18 2000



July 31, 2000

Mr. Chuck Williams
U.S. Environmental Protection Agency
UIC Implementation Section, 8 P2-W-GW
999 18th street, Ste. 500
Denver, CO 80202-2466

Dear Mr. Williams

You requested the log tops for the Ute Tribal 29-03 well on the 27th of July. I apologize for taking so long in getting the information to you. If you need further information regarding this well or others please do not hesitate to call.

Ute Tribal 29-03
EPA Area Permit No. UT2736-04541

B Marker	4050'
X Marker	4538'
Y Marker	4570'
Douglas Creek	4671'
B Limestone	5058'
Base Castle Peak	5604'
Basal Carbonate	6029'

Sincerely,
Petroglyph Energy, Inc.

A handwritten signature in dark ink, appearing to read 'Micheal Safford', written over a horizontal line.

Micheal Safford
Operations Coordinator

PC: KS-POCI

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____

Date: 11/19/05

Test conducted by: CC, FIF, R. G. L. L.

Others present:

43013031842

SS

310

21

Well Name: <u>29-03</u>	Type: ER SWD	Status: AC TA UC
Field: <u>AMTLOPE CREEK</u>		
Location: <u>29-03</u> Sec: <u>T</u> N/S R <u>E/W</u> County: <u>DUCHESSNE</u> State: <u>UT</u>		
Operator: <u>PETROBRAS OPERATION</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: _____ PSIG	

Is this a regularly scheduled test? ☒ Yes [] No

Initial test for permit? [] Yes [] No

Test after well rework? [] Yes [] No

Well injecting during test? ☒ Yes [] No

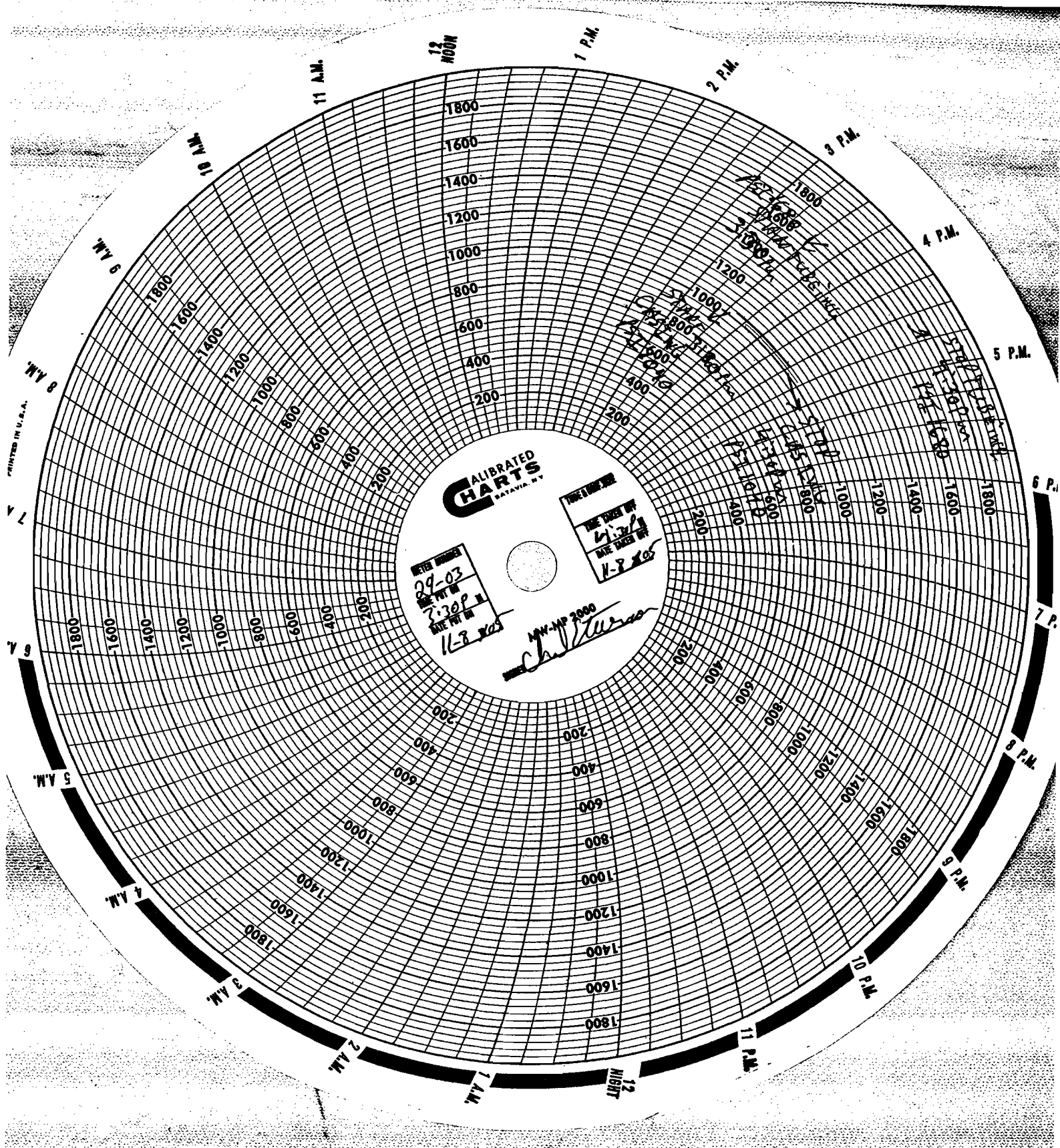
Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

If Yes, rate: 48 bpd

Pre-test casing/tubing annulus pressure: _____ psig

MIT DATA TABLE		Test #1	Test #2	Test #3
TUBING		PRESSURE		
Initial Pressure	<u>1680</u>	psig	psig	psig
End of test pressure	<u>1680</u>	psig	psig	psig
CASING / TUBING		ANNULUS	PRESSURE	
0 minutes	<u>1040</u>	psig	psig	psig
5 minutes	<u>1040</u>	psig	psig	psig
10 minutes	<u>1040</u>	psig	psig	psig
15 minutes	<u>1040</u>	psig	psig	psig
20 minutes	<u>1040</u>	psig	psig	psig
25 minutes	<u>1040</u>	psig	psig	psig
30 minutes	<u>1040</u>	psig	psig	psig
<u>1 Hour</u> minutes	<u>1040</u>	psig	psig	psig
minutes		psig	psig	psig
RESULT	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass <input type="checkbox"/> Fail			

Does the annulus pressure build back up after the test? [] Yes [] No



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Water Injection Well</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H623518
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P. O. Box 607 CITY <u>Roosevelt</u> STATE <u>Ut</u> ZIP <u>84066</u>		7. UNIT or CA AGREEMENT NAME: 1420H624650
4. LOCATION OF WELL FOOTAGES AT SURFACE: 660' FNL 1980' FWL		8. WELL NAME and NUMBER: Ute Tribal 29-03
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 29 5S 3W		9. API NUMBER: 4301331842
COUNTY: Duchesne		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 1/10/2008	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>replace packer</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On January 3, 2008 this well Ute Tribal 29-03 was shut in because of loss of integrity due to a possible tubing or packer leak. We place a rig on the well and replaced the packer, set at 3993'+/-, broke and redoped all tubing collars and hydrotested well to 6,000# psi. A successful MIT was conducted on January 10, 2008. We have sent the proper information and test results to EPA and we are currently waiting for approval to resume injection.

NAME (PLEASE PRINT) <u>Steve Wall</u>	TITLE <u>Manager</u>
SIGNATURE <u><i>Steve Wall</i></u>	DATE <u>1/11/2008</u>

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JAN 14 2008

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER Water Injection Well

2. NAME OF OPERATOR:
Petroglyph Operating Company, Inc.

3. ADDRESS OF OPERATOR:
P. O. Box 607 CITY Roosevelt STATE Ut ZIP 84078

PHONE NUMBER:
(435) 722-5304

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 660' FNL 1980' FWL

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 29 5S 3W

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:
1420H623518

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Ute Indian Tribe

7. UNIT or CA AGREEMENT NAME:
1420H624650

8. WELL NAME and NUMBER:
Ute Tribal 29-03

9. API NUMBER:
4301331842

10. FIELD AND POOL, OR WILDCAT:
Antelope Creek

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>1/30/2008</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>well Integrity</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well has been shut-in since January 3 due to lose of integrity. We replaced the packer at the same depth. broke and re-doped all tubing collars and hydro-tested all tubing to 6,000# psi. We completed a successful MIT test and filed the appropriate forms with the EPA and have received permission to resume injection. Injection resumed on January 30, 2008.

NAME (PLEASE PRINT) Steve Wall

TITLE Manager

SIGNATURE

Steve Wall

DATE 2/5/2008

(This space for State use only)

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FEB 06 2008

DIV. OF OIL, GAS & MINING